APPENDIX F

Investigation-Derived Waste Management Reports

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July 1, 2016

Ms. Katie Tait, OHARNG
Camp Ravenna
1438 State Route 534 SW
Newton Falls, OH 44444

References: **Contract No. W912QR-12-D-0020, Delivery Order 0008, 2013 Performance-Based Acquisition (PBA) for Supplemental Remedial Investigations (RI)/Feasibility Reports (FSs) for Multiple AOCs at the Ravenna Army Ammunition Plant (RVAAP), Ravenna, Ohio**
Contract No. W912QR-15-C-0046, Completion of RI, FS, PP, and ROD Documents, Multiple Areas of Concern, Former RVAAP Restoration Program

Subject: **Investigation-Derived Waste (IDW) Characterization and Disposal Plan**

Dear Ms. Tait:

Investigative activities in accordance with the following plans were performed from May 16, 2016 through May 18, 2016:

1) *PBA 2013 Sample and Analysis Plan Addendum for Surface Water and Sediment at Load Lines 1, 2, 3, and 4* (April 2016) (herein referred to as the 2016 SAP Addendum).
2) *Letter Work Plan for Pre-Delineation Sampling of Lead-Contaminated Sediment in the Load Line 2 Functional Area* (May 2016).

These activities have resulted in the generation of IDW consisting of soil cuttings and equipment decontamination fluids. The purpose of this letter is to characterize and classify IDW for disposal and to propose methods for disposing the IDW.

This letter report includes a summary of IDW generated, the origin of the IDW (Table 1), as well as proposed classification and recommendations for disposal of the IDW (Table 2). In addition to the specified plans, this letter report follows guidance established by the *Facility-Wide Sampling and Analysis Plan* (USACE 2011) (herein referred to at the Facility-wide SAP).

Two distinct IDW streams were sampled as part of the field activities. Each waste stream was composited and sampled on May 18, 2016 per requirements outlined in Section 7.0 of the Facility-wide SAP.

IDW streams generated are:

- One (1), 55-gallon drum containing equipment decontamination fluids containing liquinox wash water, 2% hydrochloric acid (HCl), 10% nitric acid, isopropanol, and DI water; and
- One (1), 55-gallon drums containing soil and sediment.

Table 1. Summary of Sampled Investigation-Derived Wastes

Container Number	Container Type and Size	Contents	Generation Date	Sample ID	Date Sampled
Leidos-2016-01	55 Gallon, Steel, Open Top Drum	Soil Cuttings	5/16/2016 – 5/18/2016	PBA13-IDW-2541-WS	5/18/2016
Leidos-2016-02	55 Gallon, Steel, Closed Top Drum	Decon Wash Water	5/16/2016 – 5/18/2016	PBA13-IDW-2542-WW	5/18/2016

Liquid IDW Discussion

Per Section 8.4 of the Facility-wide SAP, one composite waste sample was collected for Toxicity Characteristic Leaching Procedure (TCLP) parameters and submitted for laboratory analysis to characterize the waste for disposal. Sample PBA13-IDW-2542-WW was collected to characterize one drum of equipment decontamination fluids containing liquinox wash water, 2% HCl, 10% nitric acid, isopropanol, and DI water. Upon receipt of analytical results from the laboratory, the analytical results were validated and reviewed to determine if the waste was potentially hazardous. This review consisted of a comparison of the analytical results against the TCLP criteria presented in Table 8-1, Maximum Concentration of Contaminants for the Toxicity Characteristic (40 *CFR* 261.24), presented in the Facility-Wide SAP (USACE 2011) and Resource Conservation Recovery Act (RCRA) Hazardous Waste regulations 40 *CFR* 261 – 265.

The laboratory analysis for pH was reported at a value of 1.8 for sample PBA13-IDW-2542-WW. On June 23, 2016, Leidos neutralized the liquid (approximately 10 gallons) by adding clean tap water from the project source water tap. A total of 19 gallons were added to the 55 gal drum, for a total of 29 gallons. The final pH of the drum was recorded at 6.0. The field form and photographs are presented in Attachment 1.

Attachment 2 presents the analytical laboratory data for TCLP analysis for IDW water. The results are summarized below:

1) All analytical results were below available quantitative limits for the IDW liquid sample;
2) The pH for the IDW aqueous waste is considered neutral (2 S. U. < pH < 12 S.U.); and
3) The flash point was below detectable limits, >180°F.

Given the observed analytical results, it is recommended that the liquid IDW be classified as non-hazardous, non-contaminated.

Solid IDW Discussion

Per Section 8.4 of the Facility-wide SAP, a composite waste sample (PBA13-IDW-2541-WS) was collected for TCLP parameters and submitted for laboratory analysis to characterize the soil IDW for disposal. Upon receipt of analytical results from the laboratory, the analytical results were validated and reviewed to determine if the waste was potentially hazardous. This review consisted of a comparison of the analytical results against the TCLP criteria presented in Table 7-1, Maximum

Concentration of Contaminants for the Toxicity Characteristic (40 *CFR* 261.24), presented in the Facility-Wide SAP (USACE 2001) and RCRA Hazardous Waste regulations 40 *CFR* 261 – 265.

Attachment 2 presents the analytical laboratory data for TCLP analysis for solid IDW generated during ongoing field activities. The results are summarized below:

1) All analytical results were below quantitative limits for the IDW solid sample;
2) The pH for the IDW sample was neutral, at 7.5 standard units; and
3) The flash point was below detectable limits, >180°F.

Given the observed analytical results, it is recommended that the solid IDW stream be classified as non-hazardous, non-contaminated.

Recommended Disposal Pathways for IDW

Table 2 presents the disposal pathway identified as a result of IDW characterization data. This IDW has been characterized under provisions of the Facility-Wide SAP using TCLP analyses and process knowledge. Leidos recommends that all IDW be disposed as non-hazardous, non-contaminated waste to be removed offsite by a permitted water treatment or waste facility unless the U.S. Army has additional information that would result in the IDW meeting the definition of a listed hazardous waste as defined in 40 *CFR* Part 261 Subpart D.

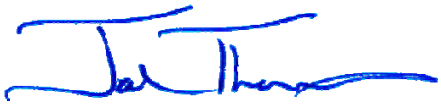
Table 2. Summary of Final Waste Classification and Recommended Disposal

NON-HAZARDOUS WASTE			
Container Number	**Medium**	**Waste Criterion**	**Disposal Recommendation**
Leidos-2016-01	Solid	Inorganics, organics	Permitted Treatment or Waste Facility
Leidos-2016-02	Liquid	Inorganics, organics	Permitted Treatment or Waste Facility

Since the former RVAAP, under RCRA, is the generator of this material, Leidos requests concurrence or direction on the waste classification and recommended disposal pathways prior to disposal. Following your concurrence, we will proceed with the appropriate waste disposal.

If you have any questions, or require additional information, please do not hesitate to contact me at (330) 405-5802.

Leidos



Jed Thomas, P.E.
Project Manager

cc: Mark Leeper, Army National Guard Directorate
Kevin Sedlak, ARNG, Camp Ravenna
Nat Peters, UACE Louisville
Greg Moore, USACE Louisville
Vasu Peterson, Leidos
Heather Adams, Leidos
Pat Ryan, Leidos-REIMS
Gail Harris, Vista Sciences Corporation

ATTACHMENT 1
FIELD FORMS AND PHOTGRAPHS

TASK TEAM ACTIVITY LOG SHEET

PROJECT NAME: RVAAP FW Sewers EE/CA **PROJECT NO:**

Date: (mm/dd/yy): 06/23/16 Page 1 of 1

Task Team Members:

Rich Sprinzl

Narrative (include time and location):

1350 Rich arrived @ Camp Ravenna East Gate, Pickup B1036 from VISTA (AL Brillhart)

1415 Rich arrived @ Main Gate then unlocked B1036. Inspect IDW drums - No issues

1430 Calibrate Hanna 99301 pH meter (#028282) pH 7 #5GG637 (exp 7/31/17) pH 4 # 4AG1032 (exp 7/2016)
pH 7 6.98 ✓
pH 4 4.04 ✓

1445 Test existing pH of Decon waste water (#Leidos-2016-02) → 5.75 (stirred/mixed → 5.85),
- Test potable water pH = 7.05 ; Existing Volume 10gal (remaining from sampling)
- Add ad 9 gal potable water (Tunnsburg office); Retest pH = 6.00
- Add ad 5gal more (24 gal total in drum). Retest pH = 6.00. Inform Heather Adams.
- Check pH meter w/buffers. (7.17/4.21)
- Test IDW w/pH strip → ~6 (matches pH meter)

1530 Drum secured, Locked up B1036, Depart Main Gate.

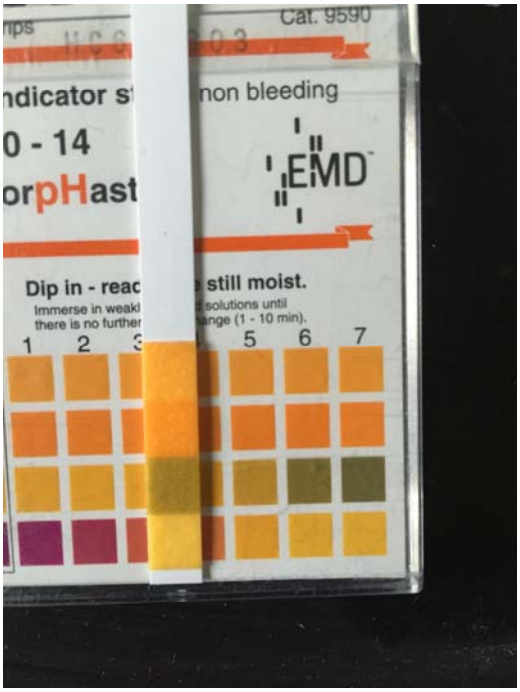
Daily Weather Condition: A.M. NA

P.M. 70s overcast, drizzle

Recorded By: RSprinzl (Signature) QC Checked by: (Signature)

leidos


HANNA
ATC
pH
6.00
27.1°C
Calibrated


Cat. 9590
non bleeding
EMD
0 - 14
orpHast
Dip in - reac
still moist.
1 2
5 6 7

ATTACHMENT 2
ANALYTICAL RESULTS FOR IDW

Sample Id				PBA13-IDW-2541-WS	PBA13-IDW-2542-WW
Date				**05/18/2016**	**05/18/2016**
Analyte	**CAS Number**	**Units**	**Maximum Concentration for Toxicity Characteristic (mg/L)**		
TCLP Metals					
Arsenic	7440-38-2	mg/L	5	0.0096 J	0.0082 J
Barium	7440-39-3	mg/L	100	0.27 J	0.28
Cadmium	7440-43-9	mg/L	1	0.0038	0.03
Chromium	7440-47-3	mg/L	5	0.0033 J	0.044
Lead	7439-92-1	mg/L	5	0.27	0.67
Mercury	7439-97-6	mg/L	0.2	<0.00006 U	0.000036 J
Selenium	7782-49-2	mg/L	1	0.011 J	0.0043 J
Silver	7440-22-4	mg/L	5	<0.002 U	<0.002 U
TCLP Miscellaneous					
Flashpoint		Deg. F	>180/>140	>140	>140
Cyanide	57-12-5		0.66 (mg/kg)/0.01 (mg/L)	<20 UJ (mg/kg)	<0.012 UJ (mg/L)
Sulfide	18496-25-8		39.5 (mg/kg)/3.0 (mg/L)	<100 U (mg/kg)	<1 UJ (mg/L)
pH		Std Unit	2≤pH≤12.5	6.81	6.0*
TCLP Herbicides					
2,4,5-TP (Silvex)	93-72-1	mg/L	1	<0.010 U	<0.010 U
2,4-D	94-75-7	mg/L	10	<0.001 U	<0.001 U
TCLP Pesticides					
Chlordane	57-74-9	mg/L	0.03	<0.003 U	<0.003 U
Endrin	72-20-8	mg/L	0.02	<0.0001 U	<0.0001 U
Heptachlor	76-44-8	mg/L	0.008	<0.0001 U	<0.0001 U
Heptachlor epoxide	1024-57-3	mg/L	0.008	<0.0001 U	<0.0001 U
Methoxychlor	72-43-5	mg/L	10	<0.0001 U	<0.0001 U
Toxaphene	8001-35-2	mg/L	0.5	<0.003 U	<0.003 U
alpha-Chlordane	5103-71-9	mg/L	-	<0.0001 U	<0.0001 U
gamma-BHC [Lindane]	58-89-9	mg/L	0.4	<0.0001 U	<0.0001 U
gamma-Chlordane	5103-74-2	mg/L	-	<0.0001 U	<0.0001 U
TCLP Semivolatile Organics					
1,4-Dichlorobenzene	106-46-7	mg/L	7.5	<0.004 U	<0.004 U
2,4,5-Trichlorophenol	95-95-4	mg/L	400	<0.02 U	<0.02 U
2,4,6-Trichlorophenol	88-06-2	mg/L	2	<0.02 U	<0.02 U
2,4-Dinitrotoluene	121-14-2	mg/L	0.13	<0.004 U	<0.004 U
2-Methylphenol	95-48-7	mg/L	200	<0.02 U	<0.02 U
4-Methylphenol	1319-77-3	mg/L	200	<0.036 U	<0.036 U
Hexachlorobenzene	118-74-1	mg/L	0.13	<0.004 U	<0.004 U
Hexachlorobutadiene	87-68-3	mg/L	0.5	<0.004 U	<0.004 U
Hexachloroethane	67-72-1	mg/L	3	<0.004 U	<0.004 U
Nitrobenzene	98-95-3	mg/L	2	<0.004 U	<0.004 U
Pentachlorophenol	87-86-5	mg/L	100	<0.02 U	<0.02 U
Pyridine	110-86-1	mg/L	5	<0.01 U	<0.01 U

Sample Id				PBA13-IDW-2541-WS	PBA13-IDW-2542-WW
Date				**05/18/2016**	**05/18/2016**
Analyte	**CAS Number**	**Units**	**Maximum Concentration for Toxicity Characteristic (mg/L)**		
TCLP Volatile Organics					
1,1-Dichloroethene	75-35-4	mg/L	0.7	<0.05 U	<0.05 U
1,2-Dichloroethane	107-06-2	mg/L	0.5	<0.05 U	<0.05 U
2-Butanone	78-93-3	mg/L	200	<0.5 U	<0.5 U
Benzene	71-43-2	mg/L	0.5	<0.05 U	<0.05 U
Carbon tetrachloride	56-23-5	mg/L	0.5	<0.05 U	<0.05 U
Chlorobenzene	108-90-7	mg/L	100	<0.05 U	<0.05 U
Chloroform	67-66-3	mg/L	6	<0.025 U	<0.025 U
Tetrachloroethene	127-18-4	mg/L	0.7	<0.05 U	<0.05 U
Trichloroethene	79-01-6	mg/L	0.5	<0.05 U	<0.05 U
Vinyl chloride	75-01-4	mg/L	0.2	<0.05 U	<0.05 U
PCBs				*mg/kg*	*mg/L*
Aroclor 1016	12674-11-2		-	<0.036 U	<0.00031 U
Aroclor 1221	11104-28-2		-	<0.036 U	<0.00031 U
Aroclor 1232	11141-16-5		-	<0.036 U	<0.00031 U
Aroclor 1242	53469-21-9		-	<0.036 U	<0.00031 U
Aroclor 1248	12672-29-6		-	<0.036 U	<0.00031 U
Aroclor 1254	11097-69-1		-	0.202**	<0.00031 U
Aroclor 1260	11096-82-5		-	0.0644	<0.00031 U
Aroclor 1262	37324-23-5		-	<0.036 U	<0.00031 U
Aroclor 1268	11100-14-4		-	<0.036 U	<0.00031 U
Explosives			*mg/L*	*mg/kg*	*mg/L*
1,3,5-Trinitrobenzene [1,3,5-TNB]	99-35-4		-	<0.3 UJ	<0.00008 U
1,3-Dinitrobenzene [1,3-DNB]	99-65-0		-	<0.2 U	<0.00008 U
2,4,6-Trinitrotoluene	118-96-7		-	<0.2 U	<0.00016 U
2,4-Dinitrotoluene	121-14-2		0.13	<0.2 U	<0.00004 U
2,6-Dinitrotoluene	606-20-2		-	<0.2 U	<0.00004 U
2-Amino-4,6-dinitrotoluene	35572-78-2		-	<0.2 U	<0.00008 U
2-Nitrotoluene	88-72-2		-	<0.2 U	0.0039
3,5-Dinitroaniline	618-87-1		-	<0.2 U	<0.00008 U
3-Nitrotoluene	99-08-1		-	<0.3 U	0.00096
4-Amino-2,6-dinitrotoluene	19406-51-0		-	<0.2 U	<0.00008 U
4-Nitrotoluene	99-99-0		-	<0.2 U	<0.00008 U
Hexahydro-1,3,5-Trinitro-1,3,5-Triazine (RDX)	121-82-4		-	<0.3 U	<0.00008 U
Nitrobenzene	98-95-3		2	<0.2 U	<0.00008 U
Nitroglycerin	55-63-0		-	<1.2 U	<0.00032 U
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	2691-41-0		-	<0.3 U	<0.00008 U

Sample Id				PBA13-IDW-2541-WS	PBA13-IDW-2542-WW
Date				**05/18/2016**	**05/18/2016**
Analyte	**CAS Number**	**Units**	**Maximum Concentration for Toxicity Characteristic (mg/L)**		
PETN	78-11-5		-	<1.2 U	<0.00032 U
Tetryl	479-45-8		-	<0.2 U	<0.00016 U

Notes:
*initial pH was 1.8. Added 14 gallons of clean water on 6/23/2016 which raised the pH to 6.
**below 50 ppm, therefore not required to managed under TSCA 40 CFR 761.
J = Estimated Concentration, less than the reporting limit – Lab Qualifier
U = Non-detect, concentration reported is reporting limit – Lab Qualifier
UJ = Non-detect, reporting limit estimated – Lab Qualifier
- = No Standard Exists

WASTE CHARACTERIZATION SAMPLING ANALYTICAL SUMMARY REPORT

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REVISED

ANALYTICAL SUMMARY REPORT

This report at a minimum contains the following information:

Analytical Report of Test Results
Description of QC Qualifiers
Chain of Custody (copy)
Quality Control Summary (if applicable)
Case Narrative (if applicable)
Correspondence with Client (if applicable)

Revision Date 06/08/2016
Reason for Revision
Reported absent reactive sulfide data.

This report has been specifically prepared to satisfy project or program requirements. These results are in compliance with NELAC requirements for parameters where accreditation is required or available, unless otherwise noted in the case narrative.

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

REVISED

ANALYTICAL SAMPLE DATA

LEIDOS
MARIE SIMPSON
301 LABORATORY ROAD
OAKRIDGE, TN 37831

Project Name: FW SEWERS EE/CA (LL2)
Project Phase:
Project #:
Folder #: 119145
Purchase Order #: P010183168
Contract #: 2941

Arrival Temperature: 1.8
Report Date: 06/06/2016
Date Received: 05/19/2016
Reprint Date: 06/08/2016

CT LAB#: 725918 Sample Description: PBA13-IDW-2541-WS Client Sample #: Sampled: 05/18/2016 1225

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method	
Inorganic Results													
Solids, Percent	***55.5***	%	0.1	0.1	0.1	0.1	1.00	Y		5/20/16 15:00	AMA	EPA 8000C	
pH	***6.81***	S.U.					1.00			5/24/16 12:50	MER	EPA 9045D	^
Flashpoint	***>140.0***	Deg. F					1.00			5/20/16 12:00	LJS	EPA 1010A	^
Cyanide, Reactive	<20	mg/kg	20	20	20	20	1.00	U M		5/24/16 14:00	SAW	ASTM D5049	^
Sulfide Reactive	<100	mg/kg	100	100	100	100	1.00	U		5/24/16 14:00	SAW	ASTM D4978	^
Organic Results													
Aroclor-1016	<36	ug/kg	8.9	36	54	54	1.00	U	05/23/2016 13:30	5/24/16 00:46	JJY	EPA 8082A	
Aroclor-1221	<36	ug/kg	13	36	54	54	1.00	U	05/23/2016 13:30	5/24/16 00:46	JJY	EPA 8082A	
Aroclor-1232	<36	ug/kg	16	36	54	54	1.00	U	05/23/2016 13:30	5/24/16 00:46	JJY	EPA 8082A	
Aroclor-1242	<36	ug/kg	13	36	54	54	1.00	U	05/23/2016 13:30	5/24/16 00:46	JJY	EPA 8082A	
Aroclor-1248	<36	ug/kg	13	36	54	54	1.00	U	05/23/2016 13:30	5/24/16 00:46	JJY	EPA 8082A	
Aroclor-1254	***202***	ug/kg	16	36	54	54	1.00		05/23/2016 13:30	5/24/16 12:42	JJY	EPA 8082A	
Aroclor-1260	***64.4***	ug/kg	11	36	54	54	1.00		05/23/2016 13:30	5/24/16 00:46	JJY	EPA 8082A	
Aroclor-1262	<36	ug/kg	13	36	54	54	1.00	U	05/23/2016 13:30	5/24/16 00:46	JJY	EPA 8082A	
Aroclor-1268	<36	ug/kg	8.9	36	54	54	1.00	U	05/23/2016 13:30	5/24/16 00:46	JJY	EPA 8082A	

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 725918 Sample Description: PBA13-IDW-2541-WS Client Sample #: Sampled: 05/18/2016 1225

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Surr: 2,4,5,6-TCMX	112	% Recovery	44			130	1.00		05/23/2016 13:30	5/24/16 00:46	JJY	EPA 8082A
Surr: DCBP	102	% Recovery	54			141	1.00		05/23/2016 13:30	5/24/16 00:46	JJY	EPA 8082A
1,3,5-Trinitrobenzene	<0.30	mg/kg	0.13	0.30	0.50	0.50	1.00	U M	05/26/2016 11:30	6/2/16 13:55	RED	EPA 8330B
1,3-Dinitrobenzene	<0.20	mg/kg	0.080	0.20	0.30	0.30	1.00	U	05/26/2016 11:30	6/2/16 13:55	RED	EPA 8330B
2,4,6-Trinitrotoluene	<0.20	mg/kg	0.090	0.20	0.50	0.50	1.00	U	05/26/2016 11:30	6/2/16 13:55	RED	EPA 8330B
2,4-Dinitrotoluene	<0.20	mg/kg	0.080	0.20	0.30	0.30	1.00	U	05/26/2016 11:30	6/2/16 13:55	RED	EPA 8330B
2,6-Dinitrotoluene	<0.20	mg/kg	0.070	0.20	0.30	0.30	1.00	U	05/26/2016 11:30	6/2/16 13:55	RED	EPA 8330B
2-Amino-4,6-dinitrotoluene	<0.20	mg/kg	0.090	0.20	0.30	0.30	1.00	U	05/26/2016 11:30	6/2/16 13:55	RED	EPA 8330B
2-Nitrotoluene	<0.20	mg/kg	0.090	0.20	0.30	0.30	1.00	U	05/26/2016 11:30	6/2/16 13:55	RED	EPA 8330B
3,5-Dinitroaniline	<0.20	mg/kg	0.090	0.20	0.60	0.60	1.00	U	05/26/2016 11:30	6/2/16 13:55	RED	EPA 8330B
3-Nitrotoluene	<0.30	mg/kg	0.11	0.30	0.50	0.50	1.00	U	05/26/2016 11:30	6/2/16 13:55	RED	EPA 8330B
4-Amino-2,6-dinitrotoluene	<0.20	mg/kg	0.080	0.20	0.30	0.30	1.00	U	05/26/2016 11:30	6/2/16 13:55	RED	EPA 8330B
4-Nitrotoluene	<0.20	mg/kg	0.10	0.20	0.50	0.50	1.00	U	05/26/2016 11:30	6/2/16 13:55	RED	EPA 8330B
HMX	<0.30	mg/kg	0.12	0.30	0.50	0.50	1.00	U	05/26/2016 11:30	6/2/16 13:55	RED	EPA 8330B
Nitrobenzene	<0.20	mg/kg	0.10	0.20	0.50	0.50	1.00	U	05/26/2016 11:30	6/2/16 13:55	RED	EPA 8330B
Nitroglycerin	<1.2	mg/kg	0.50	1.2	2.0	2.0	1.00	U	05/26/2016 11:30	6/2/16 13:55	RED	EPA 8330B
PETN	<1.2	mg/kg	0.60	1.2	2.0	2.0	1.00	U	05/26/2016 11:30	6/2/16 13:55	RED	EPA 8330B
RDX	<0.30	mg/kg	0.14	0.30	0.50	0.50	1.00	U	05/26/2016 11:30	6/2/16 13:55	RED	EPA 8330B
Tetryl	<0.20	mg/kg	0.090	0.20	0.50	0.50	1.00	U	05/26/2016 11:30	6/2/16 13:55	RED	EPA 8330B
1,2-Dinitrobenzene	103	% Recovery	78			119	1.00		05/26/2016 11:30	6/2/16 13:55	RED	EPA 8330B

CT LAB#: 725919 Sample Description: PBA13-IDW-2541-WS Client Sample #: Sampled: 05/18/2016 1225

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Metals Results												
TCLP Arsenic	***0.0096***	mg/L	0.0040	0.012	0.024	0.024	1.00	J	05/25/2016 07:00	5/27/16 18:06	NAH	EPA 6010C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 725919 Sample Description: PBA13-IDW-2541-WS Client Sample #: Sampled: 05/18/2016 1225

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method	
TCLP Barium	***0.27***	mg/L	0.00029	0.00090	0.0018	0.0018	1.00	M	05/25/2016 07:00	5/27/16 18:06	NAH	EPA 6010C	
TCLP Cadmium	***0.0038***	mg/L	0.00030	0.0010	0.0020	0.0020	1.00	M	05/25/2016 07:00	5/27/16 18:06	NAH	EPA 6010C	
TCLP Chromium	***0.0033***	mg/L	0.00060	0.0020	0.0040	0.0040	1.00	J M	05/25/2016 07:00	5/27/16 18:06	NAH	EPA 6010C	
TCLP Lead	***0.27***	mg/L	0.0014	0.0020	0.0040	0.0040	1.00		05/25/2016 07:00	5/27/16 18:06	NAH	EPA 6010C	
TCLP Selenium	***0.011***	mg/L	0.0022	0.0065	0.013	0.013	1.00	J	05/25/2016 07:00	5/27/16 18:06	NAH	EPA 6010C	
TCLP Silver	<0.0020	mg/L	0.00070	0.0020	0.0040	0.0040	1.00	U	05/25/2016 07:00	5/27/16 18:06	NAH	EPA 6010C	
TCLP Mercury	<0.000060	mg/L	0.000030	0.000060	0.00012	0.00012	1.00	U	05/25/2016 07:00	5/31/16 08:23	LJF	EPA 7470A	
Organic Results													
TCLP alpha-Chlordane	<0.00010	mg/L	0.000090	0.00010	0.00040	0.00040	1.00	U	05/25/2016 07:00	5/26/16 16:47	JJY	EPA 8081B	^
TCLP Chlordane (Technical)	<0.0030	mg/L	0.0010	0.0030	0.0060	0.0060	1.00	U	05/25/2016 07:00	5/26/16 16:47	JJY	EPA 8081B	^
TCLP Endrin	<0.00010	mg/L	0.000060	0.00010	0.00024	0.00024	1.00	U	05/25/2016 07:00	5/26/16 16:47	JJY	EPA 8081B	^
TCLP gamma-Chlordane	<0.00010	mg/L	0.000070	0.00010	0.00024	0.00024	1.00	U	05/25/2016 07:00	5/26/16 16:47	JJY	EPA 8081B	^
TCLP Heptachlor	<0.00010	mg/L	0.000060	0.00010	0.00024	0.00024	1.00	U	05/25/2016 07:00	5/26/16 16:47	JJY	EPA 8081B	^
TCLP Heptachlor epoxide	<0.00010	mg/L	0.000070	0.00010	0.00024	0.00024	1.00	U	05/25/2016 07:00	5/26/16 16:47	JJY	EPA 8081B	^
TCLP Lindane	<0.00010	mg/L	0.000070	0.00010	0.00024	0.00024	1.00	U	05/25/2016 07:00	5/26/16 16:47	JJY	EPA 8081B	^
TCLP Methoxychlor	<0.00010	mg/L	0.000060	0.00010	0.00040	0.00040	1.00	U	05/25/2016 07:00	5/26/16 16:47	JJY	EPA 8081B	^
TCLP Toxaphene	<0.0030	mg/L	0.0018	0.0030	0.0060	0.0056	1.00	U	05/25/2016 07:00	5/26/16 16:47	JJY	EPA 8081B	^
TCLP SURR:2,4,5,6-CL4-m-xylene	94	% Recovery	25			140	1.00		05/25/2016 07:00	5/26/16 16:47	JJY	EPA 8081B	
TCLP SURR:Decachlorobiphenyl	106	% Recovery	30			135	1.00		05/25/2016 07:00	5/26/16 16:47	JJY	EPA 8081B	
TCLP 1,1-Dichloroethene	<0.050	mg/L	0.024	0.050	0.10	0.10	100.00	U	05/24/2016 14:00	5/26/16 11:05	RLD	EPA 8260C	
TCLP 1,2-Dichloroethane	<0.050	mg/L	0.030	0.050	0.10	0.10	100.00	U	05/24/2016 14:00	5/26/16 11:05	RLD	EPA 8260C	
TCLP 2-Butanone	<0.50	mg/L	0.24	0.50	1.0	1.0	100.00	U	05/24/2016 14:00	5/26/16 11:05	RLD	EPA 8260C	
TCLP Benzene	<0.050	mg/L	0.019	0.050	0.10	0.10	100.00	U	05/24/2016 14:00	5/26/16 11:05	RLD	EPA 8260C	
TCLP Carbon tetrachloride	<0.050	mg/L	0.023	0.050	0.10	0.10	100.00	U	05/24/2016 14:00	5/26/16 11:05	RLD	EPA 8260C	
TCLP Chlorobenzene	<0.050	mg/L	0.024	0.050	0.10	0.10	100.00	U	05/24/2016 14:00	5/26/16 11:05	RLD	EPA 8260C	
TCLP Chloroform	<0.025	mg/L	0.015	0.025	0.050	0.050	100.00	U	05/24/2016 14:00	5/26/16 11:05	RLD	EPA 8260C	

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 725919 Sample Description: PBA13-IDW-2541-WS Client Sample #: Sampled: 05/18/2016 1225

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
TCLP Tetrachloroethene	<0.050	mg/L	0.030	0.050	0.10	0.10	100.00	U	05/24/2016 14:00	5/26/16 11:05	RLD	EPA 8260C
TCLP Trichloroethene	<0.050	mg/L	0.021	0.050	0.10	0.10	100.00	U	05/24/2016 14:00	5/26/16 11:05	RLD	EPA 8260C
TCLP Vinyl chloride	<0.050	mg/L	0.018	0.050	0.10	0.10	100.00	U	05/24/2016 14:00	5/26/16 11:05	RLD	EPA 8260C
TCLP 1,2 Dichloroethane-d4	98	% Recovery	81			118	1.00		05/24/2016 14:00	5/26/16 11:05	RLD	EPA 8260C
TCLP Bromofluorobenzene	98	% Recovery	85			114	1.00		05/24/2016 14:00	5/26/16 11:05	RLD	EPA 8260C
TCLP d8-Toluene	101	% Recovery	89			112	1.00		05/24/2016 14:00	5/26/16 11:05	RLD	EPA 8260C
TCLP Dibromofluoromethane	100	% Recovery	80			119	1.00		05/24/2016 14:00	5/26/16 11:05	RLD	EPA 8260C
TCLP 1,4-Dichlorobenzene	<0.0040	mg/L	0.0019	0.0040	0.010	0.010	1.00	U	05/25/2016 07:00	5/26/16 14:51	RPN	EPA 8270D
TCLP 2,4,5-Trichlorophenol	<0.020	mg/L	0.011	0.020	0.050	0.050	1.00	U	05/25/2016 07:00	5/26/16 14:51	RPN	EPA 8270D
TCLP 2,4,6-Trichlorophenol	<0.020	mg/L	0.010	0.020	0.050	0.050	1.00	U	05/25/2016 07:00	5/26/16 14:51	RPN	EPA 8270D
TCLP 2,4-Dinitrotoluene	<0.0040	mg/L	0.0021	0.0040	0.010	0.010	1.00	U	05/25/2016 07:00	5/26/16 14:51	RPN	EPA 8270D
TCLP 2-Methylphenol	<0.020	mg/L	0.0086	0.020	0.050	0.050	1.00	U	05/25/2016 07:00	5/26/16 14:51	RPN	EPA 8270D
TCLP 3 & 4-Methylphenol	<0.036	mg/L	0.014	0.036	0.090	0.090	1.00	U	05/25/2016 07:00	5/26/16 14:51	RPN	EPA 8270D
TCLP Hexachlorobenzene	<0.0040	mg/L	0.0027	0.0040	0.010	0.010	1.00	U	05/25/2016 07:00	5/26/16 14:51	RPN	EPA 8270D
TCLP Hexachlorobutadiene	<0.0040	mg/L	0.0018	0.0040	0.010	0.010	1.00	U	05/25/2016 07:00	5/26/16 14:51	RPN	EPA 8270D
TCLP Hexachloroethane	<0.0040	mg/L	0.0022	0.0040	0.010	0.010	1.00	U	05/25/2016 07:00	5/26/16 14:51	RPN	EPA 8270D
TCLP Nitrobenzene	<0.0040	mg/L	0.0016	0.0040	0.010	0.010	1.00	U	05/25/2016 07:00	5/26/16 14:51	RPN	EPA 8270D
TCLP Pentachlorophenol	<0.020	mg/L	0.011	0.020	0.050	0.050	1.00	U	05/25/2016 07:00	5/26/16 14:51	RPN	EPA 8270D
TCLP Pyridine	<0.010	mg/L	0.0062	0.010	0.030	0.040	1.00	U	05/25/2016 07:00	5/26/16 14:51	RPN	EPA 8270D
TCLP Surr: 2,4,6-Tribromophenol	77	% Recovery	43			140	1.00		05/25/2016 07:00	5/26/16 14:51	RPN	EPA 8270D
TCLP Surr: 2-Fluorobiphenyl	69	% Recovery	44			119	1.00		05/25/2016 07:00	5/26/16 14:51	RPN	EPA 8270D
TCLP Surr: 2-Fluorophenol	39	% Recovery	19			119	1.00		05/25/2016 07:00	5/26/16 14:51	RPN	EPA 8270D
TCLP Surr: Nitrobenzene-d5	67	% Recovery	44			120	1.00		05/25/2016 07:00	5/26/16 14:51	RPN	EPA 8270D
TCLP Surr: Phenol-d5	29	% Recovery	1			114	1.00		05/25/2016 07:00	5/26/16 14:51	RPN	EPA 8270D
TCLP Surr: Terphenyl-d14	86	% Recovery	50			134	1.00		05/25/2016 07:00	5/26/16 14:51	RPN	EPA 8270D

Sub Lab Results

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 725919 Sample Description: PBA13-IDW-2541-WS Client Sample #: Sampled: 05/18/2016 1225

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method	
TCLP Herbicides	***attached***						1.00		05/25/2016 07:00	6/6/16 00:00	SUB	SW8151	

CT LAB#: 725920 Sample Description: PBA13-IDW-2542-WW Client Sample #: Sampled: 05/18/2016 1340

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method	
Inorganic Results													
pH	***1.98***	S.U.					1.00	X		5/24/16 12:50	MER	EPA 9040C	^
Flashpoint	***>140.0***	Deg. F					1.00			5/20/16 12:00	LJS	EPA 1010	^
Cyanide	<12	ug/L	5.0	12	24	24	1.00	U M	05/25/2016 10:45	5/25/16 15:26	MER	EPA 9012A	^
Sulfide	<1.0	mg/L	1.0	1.0	1.0	1.0	1.00	U M		5/24/16 15:00	SAW	EPA 9034	^
Organic Results													
Aroclor-1016	<0.31	ug/L	0.12	0.31	1.0	1.0	1.00	U	05/25/2016 09:00	5/26/16 17:24	JJY	EPA 8082A	
Aroclor-1221	<0.31	ug/L	0.088	0.31	1.0	1.0	1.00	U	05/25/2016 09:00	5/26/16 17:24	JJY	EPA 8082A	
Aroclor-1232	<0.31	ug/L	0.15	0.31	1.0	1.0	1.00	U	05/25/2016 09:00	5/26/16 17:24	JJY	EPA 8082A	
Aroclor-1242	<0.31	ug/L	0.099	0.31	1.0	1.0	1.00	U	05/25/2016 09:00	5/26/16 17:24	JJY	EPA 8082A	
Aroclor-1248	<0.31	ug/L	0.091	0.31	1.0	1.0	1.00	U	05/25/2016 09:00	5/26/16 17:24	JJY	EPA 8082A	
Aroclor-1254	<0.31	ug/L	0.097	0.31	1.0	1.0	1.00	U	05/25/2016 09:00	5/26/16 17:24	JJY	EPA 8082A	
Aroclor-1260	<0.31	ug/L	0.10	0.31	1.0	1.0	1.00	U	05/25/2016 09:00	5/26/16 17:24	JJY	EPA 8082A	
Aroclor-1262	<0.31	ug/L	0.29	0.31	1.0	1.0	1.00	U	05/25/2016 09:00	5/26/16 17:24	JJY	EPA 8082A	
Aroclor-1268	<0.31	ug/L	0.058	0.31	1.0	1.0	1.00	U	05/25/2016 09:00	5/26/16 17:24	JJY	EPA 8082A	
Surr: 2,4,5,6-TCMX	100	% Recovery	38			137	1.00		05/25/2016 09:00	5/26/16 17:24	JJY	EPA 8082A	
Surr: DCBP	82	% Recovery	23			147	1.00		05/25/2016 09:00	5/26/16 17:24	JJY	EPA 8082A	
1,3,5-Trinitrobenzene	<0.080	ug/L	0.038	0.080	0.16	0.16	1.00	U	05/23/2016 08:00	6/1/16 16:00	RED	EPA 8330B	
1,3-Dinitrobenzene	<0.080	ug/L	0.030	0.080	0.16	0.16	1.00	U	05/23/2016 08:00	6/1/16 16:00	RED	EPA 8330B	
2,4,6-Trinitrotoluene	<0.16	ug/L	0.052	0.16	0.32	0.32	1.00	U	05/23/2016 08:00	6/1/16 16:00	RED	EPA 8330B	

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 725920 Sample Description: PBA13-IDW-2542-WW Client Sample #: Sampled: 05/18/2016 1340

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2,4-Dinitrotoluene	<0.040	ug/L	0.022	0.040	0.080	0.080	1.00	U	05/23/2016 08:00	6/1/16 16:00	RED	EPA 8330B
2,6-Dinitrotoluene	<0.040	ug/L	0.022	0.040	0.080	0.080	1.00	U	05/23/2016 08:00	6/1/16 16:00	RED	EPA 8330B
2-Amino-4,6-dinitrotoluene	<0.080	ug/L	0.028	0.080	0.16	0.16	1.00	U	05/23/2016 08:00	6/1/16 16:00	RED	EPA 8330B
2-Nitrotoluene	***3.9***	ug/L	0.050	0.16	0.32	0.32	1.00	P	05/23/2016 08:00	6/1/16 16:00	RED	EPA 8330B
3,5-Dinitroaniline	<0.080	ug/L	0.034	0.080	0.16	0.16	1.00	U	05/23/2016 08:00	6/1/16 16:00	RED	EPA 8330B
3-Nitrotoluene	***0.96***	ug/L	0.025	0.040	0.080	0.080	1.00		05/23/2016 08:00	6/1/16 16:00	RED	EPA 8330B
4-Amino-2,6-dinitrotoluene	<0.080	ug/L	0.032	0.080	0.16	0.16	1.00	U	05/23/2016 08:00	6/1/16 16:00	RED	EPA 8330B
4-Nitrotoluene	<0.080	ug/L	0.042	0.080	0.16	0.16	1.00	U	05/23/2016 08:00	6/1/16 16:00	RED	EPA 8330B
HMX	<0.080	ug/L	0.040	0.080	0.16	0.16	1.00	U	05/23/2016 08:00	6/1/16 16:00	RED	EPA 8330B
Nitrobenzene	<0.080	ug/L	0.038	0.080	0.16	0.16	1.00	U	05/23/2016 08:00	6/1/16 16:00	RED	EPA 8330B
Nitroglycerin	<0.32	ug/L	0.10	0.32	0.64	0.64	1.00	U	05/23/2016 08:00	6/1/16 16:00	RED	EPA 8330B
PETN	<0.32	ug/L	0.14	0.32	0.64	0.64	1.00	U	05/23/2016 08:00	6/1/16 16:00	RED	EPA 8330B
RDX	<0.080	ug/L	0.034	0.080	0.16	0.16	1.00	U	05/23/2016 08:00	6/1/16 16:00	RED	EPA 8330B
Tetryl	<0.16	ug/L	0.050	0.16	0.32	0.32	1.00	U	05/23/2016 08:00	6/1/16 16:00	RED	EPA 8330B
1,2-Dinitrobenzene	85	% Recovery	83			119	1.00	P	05/23/2016 08:00	6/1/16 16:00	RED	EPA 8330B

CT LAB#: 725921 Sample Description: PBA13-IDW-2542-WW Client Sample #: Sampled: 05/18/2016 1340

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Metals Results												
TCLP Arsenic	***0.0082***	mg/L	0.0040	0.012	0.024	0.024	1.00	J	05/25/2016 07:00	5/27/16 18:48	NAH	EPA 6010C
TCLP Barium	***0.28***	mg/L	0.00029	0.00090	0.0018	0.0018	1.00		05/25/2016 07:00	5/27/16 18:48	NAH	EPA 6010C
TCLP Cadmium	***0.030***	mg/L	0.00030	0.0010	0.0020	0.0020	1.00		05/25/2016 07:00	5/27/16 18:48	NAH	EPA 6010C
TCLP Chromium	***0.044***	mg/L	0.00060	0.0020	0.0040	0.0040	1.00		05/25/2016 07:00	5/27/16 18:48	NAH	EPA 6010C
TCLP Lead	***0.67***	mg/L	0.0014	0.0020	0.0040	0.0040	1.00		05/25/2016 07:00	5/27/16 18:48	NAH	EPA 6010C
TCLP Selenium	***0.0043***	mg/L	0.0022	0.0065	0.013	0.013	1.00	J	05/25/2016 07:00	5/27/16 18:48	NAH	EPA 6010C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 725921 Sample Description: PBA13-IDW-2542-WW Client Sample #: Sampled: 05/18/2016 1340

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method	
TCLP Silver	<0.0020	mg/L	0.00070	0.0020	0.0040	0.0040	1.00	U	05/25/2016 07:00	5/27/16 18:48	NAH	EPA 6010C	
TCLP Mercury	***0.000036***	mg/L	0.000030	0.000060	0.00012	0.00012	1.00	J	05/25/2016 07:00	5/31/16 08:36	LJF	EPA 7470A	
Organic Results													
TCLP alpha-Chlordane	<0.00010	mg/L	0.000090	0.00010	0.00040	0.00040	1.00	U	05/25/2016 07:00	5/26/16 16:30	JJY	EPA 8081B	^
TCLP Chlordane (Technical)	<0.0030	mg/L	0.0010	0.0030	0.0060	0.0060	1.00	U	05/25/2016 07:00	5/26/16 16:30	JJY	EPA 8081B	^
TCLP Endrin	<0.00010	mg/L	0.000060	0.00010	0.00024	0.00024	1.00	U	05/25/2016 07:00	5/26/16 16:30	JJY	EPA 8081B	^
TCLP gamma-Chlordane	<0.00010	mg/L	0.000070	0.00010	0.00024	0.00024	1.00	U	05/25/2016 07:00	5/26/16 16:30	JJY	EPA 8081B	^
TCLP Heptachlor	<0.00010	mg/L	0.000060	0.00010	0.00024	0.00024	1.00	U	05/25/2016 07:00	5/26/16 16:30	JJY	EPA 8081B	^
TCLP Heptachlor epoxide	<0.00010	mg/L	0.000070	0.00010	0.00024	0.00024	1.00	U	05/25/2016 07:00	5/26/16 16:30	JJY	EPA 8081B	^
TCLP Lindane	<0.00010	mg/L	0.000070	0.00010	0.00024	0.00024	1.00	U	05/25/2016 07:00	5/26/16 16:30	JJY	EPA 8081B	^
TCLP Methoxychlor	<0.00010	mg/L	0.000060	0.00010	0.00040	0.00040	1.00	U	05/25/2016 07:00	5/26/16 16:30	JJY	EPA 8081B	^
TCLP Toxaphene	<0.0030	mg/L	0.0018	0.0030	0.0060	0.0056	1.00	U	05/25/2016 07:00	5/26/16 16:30	JJY	EPA 8081B	^
TCLP SURR:2,4,5,6-CL4-m-xylene	101	% Recovery	25			140	1.00		05/25/2016 07:00	5/26/16 16:30	JJY	EPA 8081B	
TCLP SURR:Decachlorobiphenyl	87	% Recovery	30			135	1.00		05/25/2016 07:00	5/26/16 16:30	JJY	EPA 8081B	
TCLP 1,1-Dichloroethene	<0.050	mg/L	0.024	0.050	0.10	0.10	100.00	U	05/24/2016 14:00	5/26/16 11:33	RLD	EPA 8260C	
TCLP 1,2-Dichloroethane	<0.050	mg/L	0.030	0.050	0.10	0.10	100.00	U	05/24/2016 14:00	5/26/16 11:33	RLD	EPA 8260C	
TCLP 2-Butanone	<0.50	mg/L	0.24	0.50	1.0	1.0	100.00	U	05/24/2016 14:00	5/26/16 11:33	RLD	EPA 8260C	
TCLP Benzene	<0.050	mg/L	0.019	0.050	0.10	0.10	100.00	U	05/24/2016 14:00	5/26/16 11:33	RLD	EPA 8260C	
TCLP Carbon tetrachloride	<0.050	mg/L	0.023	0.050	0.10	0.10	100.00	U	05/24/2016 14:00	5/26/16 11:33	RLD	EPA 8260C	
TCLP Chlorobenzene	<0.050	mg/L	0.024	0.050	0.10	0.10	100.00	U	05/24/2016 14:00	5/26/16 11:33	RLD	EPA 8260C	
TCLP Chloroform	<0.025	mg/L	0.015	0.025	0.050	0.050	100.00	U	05/24/2016 14:00	5/26/16 11:33	RLD	EPA 8260C	
TCLP Tetrachloroethene	<0.050	mg/L	0.030	0.050	0.10	0.10	100.00	U	05/24/2016 14:00	5/26/16 11:33	RLD	EPA 8260C	
TCLP Trichloroethene	<0.050	mg/L	0.021	0.050	0.10	0.10	100.00	U	05/24/2016 14:00	5/26/16 11:33	RLD	EPA 8260C	
TCLP Vinyl chloride	<0.050	mg/L	0.018	0.050	0.10	0.10	100.00	U	05/24/2016 14:00	5/26/16 11:33	RLD	EPA 8260C	
TCLP 1,2 Dichloroethane-d4	103	% Recovery	81			118	1.00		05/24/2016 14:00	5/26/16 11:33	RLD	EPA 8260C	
TCLP Bromofluorobenzene	96	% Recovery	85			114	1.00		05/24/2016 14:00	5/26/16 11:33	RLD	EPA 8260C	

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 725921 Sample Description: PBA13-IDW-2542-WW Client Sample #: Sampled: 05/18/2016 1340

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
TCLP d8-Toluene	100	% Recovery	89			112	1.00		05/24/2016 14:00	5/26/16 11:33	RLD	EPA 8260C
TCLP Dibromofluoromethane	100	% Recovery	80			119	1.00		05/24/2016 14:00	5/26/16 11:33	RLD	EPA 8260C
TCLP 1,4-Dichlorobenzene	<0.0040	mg/L	0.0019	0.0040	0.010	0.010	1.00	U	05/25/2016 07:00	5/26/16 15:11	RPN	EPA 8270D
TCLP 2,4,5-Trichlorophenol	<0.020	mg/L	0.011	0.020	0.050	0.050	1.00	U	05/25/2016 07:00	5/26/16 15:11	RPN	EPA 8270D
TCLP 2,4,6-Trichlorophenol	<0.020	mg/L	0.010	0.020	0.050	0.050	1.00	U	05/25/2016 07:00	5/26/16 15:11	RPN	EPA 8270D
TCLP 2,4-Dinitrotoluene	<0.0040	mg/L	0.0021	0.0040	0.010	0.010	1.00	U	05/25/2016 07:00	5/26/16 15:11	RPN	EPA 8270D
TCLP 2-Methylphenol	<0.020	mg/L	0.0086	0.020	0.050	0.050	1.00	U	05/25/2016 07:00	5/26/16 15:11	RPN	EPA 8270D
TCLP 3 & 4-Methylphenol	<0.036	mg/L	0.014	0.036	0.090	0.090	1.00	U	05/25/2016 07:00	5/26/16 15:11	RPN	EPA 8270D
TCLP Hexachlorobenzene	<0.0040	mg/L	0.0027	0.0040	0.010	0.010	1.00	U	05/25/2016 07:00	5/26/16 15:11	RPN	EPA 8270D
TCLP Hexachlorobutadiene	<0.0040	mg/L	0.0018	0.0040	0.010	0.010	1.00	U	05/25/2016 07:00	5/26/16 15:11	RPN	EPA 8270D
TCLP Hexachloroethane	<0.0040	mg/L	0.0022	0.0040	0.010	0.010	1.00	U	05/25/2016 07:00	5/26/16 15:11	RPN	EPA 8270D
TCLP Nitrobenzene	<0.0040	mg/L	0.0016	0.0040	0.010	0.010	1.00	U	05/25/2016 07:00	5/26/16 15:11	RPN	EPA 8270D
TCLP Pentachlorophenol	<0.020	mg/L	0.011	0.020	0.050	0.050	1.00	U	05/25/2016 07:00	5/26/16 15:11	RPN	EPA 8270D
TCLP Pyridine	<0.010	mg/L	0.0062	0.010	0.030	0.040	1.00	U	05/25/2016 07:00	5/26/16 15:11	RPN	EPA 8270D
TCLP Surr: 2,4,6-Tribromophenol	86	% Recovery	43			140	1.00		05/25/2016 07:00	5/26/16 15:11	RPN	EPA 8270D
TCLP Surr: 2-Fluorobiphenyl	71	% Recovery	44			119	1.00		05/25/2016 07:00	5/26/16 15:11	RPN	EPA 8270D
TCLP Surr: 2-Fluorophenol	45	% Recovery	19			119	1.00		05/25/2016 07:00	5/26/16 15:11	RPN	EPA 8270D
TCLP Surr: Nitrobenzene-d5	67	% Recovery	44			120	1.00		05/25/2016 07:00	5/26/16 15:11	RPN	EPA 8270D
TCLP Surr: Phenol-d5	29	% Recovery	1			114	1.00		05/25/2016 07:00	5/26/16 15:11	RPN	EPA 8270D
TCLP Surr: Terphenyl-d14	86	% Recovery	50			134	1.00		05/25/2016 07:00	5/26/16 15:11	RPN	EPA 8270D

Sub Lab Results

TCLP Herbicides	***attached***						1.00		05/25/2016 07:00	6/6/16 00:00	SUB	SW8151

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

Notes:
^ Indicates the laboratory is NELAP accredited for this analyte by the indicated matrix and method. DL (detection limit), LOD (limit of detection), loq

(limit of quantitation) as defined by most recent DOD QSM version.
All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached.

Submitted by: Eric T. Korthals
Project Manager
608-356-2760

This report has been specifically prepared to satisfy project or program requirements. These results are in compliance with NELAC requirements for the parameters where accreditation is required or available, unless noted in the case narrative.

QC Qualifiers

Code	Description
B	Analyte detected in the associated Method Blank.
C	Toxicity present in BOD sample.
D	Diluted Out.
E	Safe, No Total Coliform detected.
F	Unsafe, Total Coliform detected, no E. Coli detected.
G	Unsafe, Total Coliform detected and E. Coli detected.
H	Holding time exceeded.
I	BOD incubator temperature was outside acceptance limits during test period.
J	Estimated value.
L	Significant peaks were detected outside the chromatographic window.
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.
N	Insufficient BOD oxygen depletion.
O	Complete BOD oxygen depletion.
P	Concentration of analyte differs more than 40% between primary and confirmation analysis.
Q	Laboratory Control Sample outside acceptance limits.
R	See Narrative at end of report.
S	Surrogate standard recovery outside acceptance limits due to apparent matrix effects.
T	Sample received with improper preservation or temperature.
U	Analyte concentration was below detection limit.
V	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.
W	Sample amount received was below program minimum.
X	Analyte exceeded calibration range.
Y	Replicate/Duplicate precision outside acceptance limits.
Z	Specified calibration criteria was not met.

Current CT Laboratories Certifications

Kansas NELAP ID# E-10368
Kentucky ID# 0023
ISO/IEC 17025-2005 A2LA Cert # 3806.01
North Carolina ID# 674
Wisconsin (WDNR) Chemistry ID# 157066030
Wisconsin (DATCP) Bacteriology ID# 105-289
DoD-ELAP A2LA 3806.01
GA EPD Stipulation ID E871111, Expires Annually
Louisiana ID # 115843
Virginia ID# 7608
Illinois NELAP ID # 002413
Wisconsin (WOSB) ID# WI-5499-WBE
Maryland ID# 344

Microbac

Lab Report #: L16051594
Lab Project #: 2694.005
Project Name: CT Labs DOD
Lab Contact: Emily Yoak

Record of Sample Receipt and Inspection

Comments/Discrepancies

This is the record of the shipment conditions and the inspection records for the samples received and reported as a sample delivery group (SDG). All of the samples were inspected and observed to conform to our receipt policies, except as noted below.

The following discrepancies were noted:

Discrepancy	Resolution
The temperature was out of the acceptable range.BRG	
Ice was melted. BRG	Per the client please proceed. SLM
Sample ID: 725921 (5/18 @ 13:40). Sample received broken. BRG	Please proceed with the remaining sample SLM

Coolers

Cooler #	Temperature Gun	Temperature	COC #	Airbill #	Temp Required?
00113985	I	9.0		1Z1A377E0340782880	X

Inspection Checklist

#	Question	Result
1	Were shipping coolers sealed?	Yes
2	Were custody seals intact?	Yes
3	Were cooler temperatures in range of 0-6?	No
4	Was ice present?	No
5	Were COC's received/information complete/signed and dated?	Yes
6	Were sample containers intact and match COC?	No
7	Were sample labels intact and match COC?	Yes
8	Were the correct containers and volumes received?	Yes
9	Were samples received within EPA hold times?	Yes
10	All samples were checked for pH and met the standard. Exceptions are noted above under discrepancy. (water only)	Yes
11	Were pH ranges acceptable? (voa's excluded)	NA
12	Were VOA samples free of headspace (less than 6mm)?	NA

Microbac

Lab Report #: L16051594
Lab Project #: 2694.005
Project Name: CT Labs DOD
Lab Contact: Emily Yoak

Samples Received

Client ID	Laboratory ID	Date Collected	Date Received
725919/PBA13-IDW-2541-WS	L16051594-01	05/25/2016 07:00	05/27/2016 10:41

Microbac

Lab Report #: L16051594
Lab Project #: 2694.005
Project Name: CT Labs DOD
Lab Contact: Emily Yoak

Certificate of Analysis

Sample #:	L16051594-01	**PrePrep Method:**		**Instrument:**	HP17
Client ID:	725919/PBA13-IDW-2541-WS	**Prep Method:**	METHOD	**Prep Date:**	06/01/2016 17:00
Matrix:	TCLP Leach	**Analytical Method:**	8151A	**Cal Date:**	05/04/2016 18:01
Workgroup #:	WG571266	**Analyst:**	ECL	**Run Date:**	06/03/2016 20:39
Collect Date:	05/25/2016 07:00	**Dilution:**	1	**File ID:**	17G22089.F
Sample Tag:	01	**Units:**	ug/L		

Analyte	Result	Qual	LOQ	LOD	DL	EPA HW#	Reg. Limit
2,4-D		U,CT1	20.0	10.0	5.00	D016	10000
2,4,5-TP (Silvex)		U,CT1	2.00	1.00	0.500	D017	1000

Surrogate	Recovery	Lower Limit	Upper Limit	Q
2,4-Dichlorophenylacetic acid	50.7	32	138	

U,CT1	Analyte was not detected. The concentration is below the reported LOD. Cooler temperature at sample reciept exceeded regulatory limit.

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L16051594 Prep Date: 06/01/16 17:00 Sample ID: WG570849-01
Instrument ID: HP17 Run Date: 06/03/16 14:11 Prep Method: METHOD
File ID: 17G22074.F Analyst: ECL Method: 8151A
Workgroup (AAB#): WG571266 Matrix: Water Units: ug/L
Contract #: Cal ID: HP17-04-MAY-16

Analytes	DL	LOQ	Concentration	Dilution	Qualifier
2,4-D	0.500	2.00	0.500	1	U
2,4,5-TP (Silvex)	0.0500	0.200	0.0500	1	U

Surrogates	% Recovery	Surrogate Limits	Qualifier
2,4-Dichlorophenylacetic acid	64.4	32 - 138	PASS

DL Method Detection Limit
LOQ Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > 1/2 RL

Report Name:BLANK
PDF ID: 4793958
06-JUN-2016 14:07

Microbac Laboratories Inc.

LABORATORY CONTROL SAMPLE (LCS)

Login Number: L16051594 Run Date: 06/03/2016 Sample ID: WG570849-02

Instrument ID: HP17 Run Time: 14:37 Prep Method: METHOD

File ID: 17G22075.F Analyst: ECL Method: 8151A

Workgroup (AAB#): WG571266 Matrix: Water Units: ug/L

QC Key: DOD5 Lot#: STD74844 Cal ID: HP17-04-MAY-16

Analytes	Expected	Found	% Rec	LCS Limits	Q
2,4-D	5.00	2.87	57.3	45 - 152	
2,4,5-TP (Silvex)	0.500	0.312	62.4	51 - 134	

Surrogates	% Recovery	Surrogate Limits	Qualifier
2,4-Dichlorophenylacetic acid	58.4	32 - 138	PASS

* EXCEEDS %REC LIMIT

LCS - Modified 03/06/2008

PDF File ID: 4793823

Report generated: 06/06/2016 14:07

Microbac

Lab Report #: L16060019
Lab Project #: 2694.005
Project Name: CT Labs DOD
Lab Contact: Emily Yoak

Record of Sample Receipt and Inspection

Comments/Discrepancies

This is the record of the shipment conditions and the inspection records for the samples received and reported as a sample delivery group (SDG). All of the samples were inspected and observed to conform to our receipt policies, except as noted below.

The following discrepancies were noted:

Discrepancy	Resolution
No date/time on container. Will log per information on COC. BRG	Please log per the information on the COC and proceed. -eny

Coolers

Cooler #	Temperature Gun	Temperature	COC #	Airbill #	Temp Required?
00113448	I	4.0		420457505279	X

Inspection Checklist

#	Question	Result
1	Were shipping coolers sealed?	Yes
2	Were custody seals intact?	Yes
3	Were cooler temperatures in range of 0-6?	Yes
4	Was ice present?	Yes
5	Were COC's received/information complete/signed and dated?	Yes
6	Were sample containers intact and match COC?	Yes
7	Were sample labels intact and match COC?	No
8	Were the correct containers and volumes received?	Yes
9	Were samples received within EPA hold times?	Yes
10	All samples were checked for pH and met the standard. Exceptions are noted above under discrepancy. (water only)	Yes
11	Were pH ranges acceptable? (voa's excluded)	NA
12	Were VOA samples free of headspace (less than 6mm)?	NA

Microbac

Lab Report #: L16060019
Lab Project #: 2694.005
Project Name: CT Labs DOD
Lab Contact: Emily Yoak

Samples Received

Client ID	Laboratory ID	Date Collected	Date Received
PBA13-IDW-2542-WW	L16060019-01	05/18/2016 13:40	06/01/2016 10:39

Microbac

Lab Report #: L16060019
Lab Project #: 2694.005
Project Name: CT Labs DOD
Lab Contact: Emily Yoak

Certificate of Analysis

Sample #:	L16060019-01	**PrePrep Method:**		**Instrument:**	HP17
Client ID:	PBA13-IDW-2542-WW	**Prep Method:**	METHOD	**Prep Date:**	06/01/2016 17:00
Matrix:	TCLP Leach	**Analytical Method:**	8151A	**Cal Date:**	05/04/2016 18:01
Workgroup #:	WG571266	**Analyst:**	ECL	**Run Date:**	06/03/2016 18:04
Collect Date:	05/18/2016 13:40	**Dilution:**	1	**File ID:**	17G22083.F
Sample Tag:	01	**Units:**	ug/L		

Analyte	Result	Qual	LOQ	LOD	DL	EPA HW#	Reg. Limit
2,4-D		U	20.0	10.0	5.00	D016	10000
2,4,5-TP (Silvex)		U	2.00	1.00	0.500	D017	1000

Surrogate	Recovery	Lower Limit	Upper Limit	Q
2,4-Dichlorophenylacetic acid	67.4	32	138	

U	Analyte was not detected. The concentration is below the reported LOD.

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L16060019 Prep Date: 06/01/16 17:00 Sample ID: WG570849-01
Instrument ID: HP17 Run Date: 06/03/16 14:11 Prep Method: METHOD
File ID: 17G22074.F Analyst: ECL Method: 8151A
Workgroup (AAB#): WG571266 Matrix: Water Units: ug/L
Contract #: Cal ID: HP17-04-MAY-16

Analytes	DL	LOQ	Concentration	Dilution	Qualifier
2,4-D	0.500	2.00	0.500	1	U
2,4,5-TP (Silvex)	0.0500	0.200	0.0500	1	U

Surrogates	% Recovery	Surrogate Limits	Qualifier
2,4-Dichlorophenylacetic acid	64.4	32 - 138	PASS

DL Method Detection Limit
LOQ Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > 1/2 RL

Report Name:BLANK
PDF ID: 4793966
06-JUN-2016 14:08

Microbac Laboratories Inc.

LABORATORY CONTROL SAMPLE (LCS)

Login Number: L16060019 Run Date: 06/03/2016 Sample ID: WG570849-02

Instrument ID: HP17 Run Time: 14:37 Prep Method: METHOD

File ID: 17G22075.F Analyst: ECL Method: 8151A

Workgroup (AAB#): WG571266 Matrix: Water Units: ug/L

QC Key: DOD5 Lot#: STD74844 Cal ID: HP17-04-MAY-16

Analytes	Expected	Found	% Rec	LCS Limits	Q
2,4-D	5.00	2.87	57.3	45 - 152	
2,4,5-TP (Silvex)	0.500	0.312	62.4	51 - 134	

Surrogates	% Recovery	Surrogate Limits	Qualifier
2,4-Dichlorophenylacetic acid	58.4	32 - 138	PASS

* EXCEEDS %REC LIMIT

LCS - Modified 03/06/2008

PDF File ID: 4793967

Report generated: 06/06/2016 14:08

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QC SUMMARY REPORT

LEIDOS **Project Name: FW SEWERS EE/CA (LL2)**

SDG #: 119145 **Folder #: 119145** **Project Number:**

Duplicate

Analytical Run #:	126264	Analysis Date:	05/20/2016	Prep Batch #:		Matrix:	SOIL
CTLab #:	726875	Analysis Time:	15:00	Prep Date/Time:		Method:	SW8000C
Parent Sample #:	725918	Analyst:	AMA	Prep Analyst:			

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Solids, Percent	64.4	%	55.5					15	8

Duplicate

Analytical Run #:	126351	Analysis Date:	05/24/2016	Prep Batch #:		Matrix:	SOIL
CTLab #:	727575	Analysis Time:	12:50	Prep Date/Time:		Method:	SW9045C
Parent Sample #:	725918	Analyst:	MER	Prep Analyst:			

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
pH	6.80	S.U.						0	1

Duplicate

Analytical Run #:	126351	Analysis Date:	05/24/2016	Prep Batch #:		Matrix:	GROUND WATER
CTLab #:	727576	Analysis Time:	12:50	Prep Date/Time:		Method:	SW9045C
Parent Sample #:	725920	Analyst:	MER	Prep Analyst:			

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
pH	2.00	S.U.						1	1

Duplicate

Analytical Run #:	126369	Analysis Date:	05/24/2016	Prep Batch #:		Matrix:	SOIL
CTLab #:	727557	Analysis Time:	14:00	Prep Date/Time:		Method:	SW7.3
Parent Sample #:	725918	Analyst:	SAW	Prep Analyst:			

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Sulfide Reactive	100	mg/kg	BDL	U				0	20

LEIDOS **Project Name: FW SEWERS EE/CA (LL2)**

SDG #: 119145 **Folder #: 119145** **Project Number:**

Lab Control Spike Soil

Analytical Run #:	126369	Analysis Date:	05/24/2016	Prep Batch #:		Matrix:	SOLID
CTLab #:	727558	Analysis Time:	14:00	Prep Date/Time:		Method:	SW7.3
Parent Sample #:		Analyst:	SAW	Prep Analyst:			

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Sulfide Reactive	100	mg/kg			100	100	70 --- 130		

LEIDOS **Project Name: FW SEWERS EE/CA (LL2)**

SDG #: 119145 **Folder #: 119145** **Project Number:**

Method Blank Soil

Analytical Run #:	126369	Analysis Date:	05/24/2016	Prep Batch #:		Matrix:	SOLID
CTLab #:	727559	Analysis Time:	14:00	Prep Date/Time:		Method:	SW7.3
Parent Sample #:		Analyst:	SAW	Prep Analyst:			

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Sulfide Reactive	100	mg/kg		U	0.00		100		

LEIDOS **Project Name: FW SEWERS EE/CA (LL2)**

SDG #: 119145 **Folder #: 119145** **Project Number:**

Matrix Spike Soil

Analytical Run #:	126369	Analysis Date:	05/24/2016	Prep Batch #:		Matrix:	SOIL
CTLab #:	727556	Analysis Time:	14:00	Prep Date/Time:		Method:	SW7.3
Parent Sample #:	725918	Analyst:	SAW	Prep Analyst:			

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Sulfide Reactive	100	mg/kg	BDL		100	100	70-130		

Duplicate

Analytical Run #:	126370	Analysis Date:	05/24/2016	Prep Batch #:		Matrix:	SOIL
CTLab #:	727537	Analysis Time:	14:00	Prep Date/Time:		Method:	SW7.3
Parent Sample #:	725918	Analyst:	SAW	Prep Analyst:			

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Cyanide, Reactive	20	mg/kg	BDL	U				0	20

Lab Control Spike Soil

Analytical Run #:	126370	Analysis Date:	05/24/2016	Prep Batch #:		Matrix:	SOLID
CTLab #:	727539	Analysis Time:	14:00	Prep Date/Time:		Method:	SW7.3
Parent Sample #:		Analyst:	SAW	Prep Analyst:			

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Cyanide, Reactive	20.0	mg/kg			20.0	100	70 --- 130		

LEIDOS **Project Name: FW SEWERS EE/CA (LL2)**

SDG #: 119145 **Folder #: 119145** **Project Number:**

Method Blank Soil

Analytical Run #:	126370	Analysis Date:	05/24/2016	Prep Batch #:		Matrix:	SOLID
CTLab #:	727540	Analysis Time:	14:00	Prep Date/Time:		Method:	SW7.3
Parent Sample #:		Analyst:	SAW	Prep Analyst:			

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Cyanide, Reactive	20	mg/kg		U	0.00			8	

LEIDOS **Project Name: FW SEWERS EE/CA (LL2)**

SDG #: 119145 **Folder #: 119145** **Project Number:**

Matrix Spike Soil

Analytical Run #:	126370	Analysis Date:	05/24/2016	Prep Batch #:		Matrix:	SOIL
CTLab #:	727538	Analysis Time:	14:00	Prep Date/Time:		Method:	SW7.3
Parent Sample #:	725918	Analyst:	SAW	Prep Analyst:			

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Cyanide, Reactive	20	mg/kg	BDL	U	20.0	0	70 --- 130		

LEIDOS **Project Name: FW SEWERS EE/CA (LL2)**

SDG #: 119145 **Folder #: 119145** **Project Number:**

Duplicate

Analytical Run #:	126374	Analysis Date:	05/24/2016	Prep Batch #:		Matrix:	GROUND WATER
CTLab #:	727567	Analysis Time:	15:00	Prep Date/Time:		Method:	SW9034
Parent Sample #:	725920	Analyst:	SAW	Prep Analyst:			

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Sulfide	1.00	mg/L	<1.00	U				0	20

LEIDOS **Project Name: FW SEWERS EE/CA (LL2)**

SDG #: 119145 **Folder #: 119145** **Project Number:**

Lab Control Spike Water

Analytical Run #:	126374	Analysis Date:	05/24/2016	Prep Batch #:		Matrix:	LIQUID
CTLab #:	727555	Analysis Time:	15:00	Prep Date/Time:		Method:	SW9034
Parent Sample #:		Analyst:	SAW	Prep Analyst:			

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Sulfide	4.000	mg/L			5.000	80	80 --- 120		

Method Blank Water

Analytical Run #:	126374	Analysis Date:	05/24/2016	Prep Batch #:		Matrix:	LIQUID
CTLab #:	727568	Analysis Time:	15:00	Prep Date/Time:		Method:	SW9034
Parent Sample #:		Analyst:	SAW	Prep Analyst:			

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Sulfide	1.0	mg/L		U	0		1.5		

LEIDOS **Project Name: FW SEWERS EE/CA (LL2)**

SDG #: 119145 **Folder #: 119145** **Project Number:**

Matrix Spike Duplicate Water

Analytical Run #:	126374	Analysis Date:	05/24/2016	Prep Batch #:		Matrix:	GROUND WATER
CTLab #:	727566	Analysis Time:	15:00	Prep Date/Time:		Method:	SW9034
Parent Sample #:	727565	Analyst:	SAW	Prep Analyst:			

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Sulfide	1.20	mg/L	BDL		2.50	48	80 --- 120	0	20

Matrix Spike Water

Analytical Run #:	126374	Analysis Date:	05/24/2016	Prep Batch #:		Matrix:	GROUND WATER
CTLab #:	727565	Analysis Time:	15:00	Prep Date/Time:		Method:	SW9034
Parent Sample #:	725920	Analyst:	SAW	Prep Analyst:			

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Sulfide	1.20	mg/L	BDL		2.50	48	80 --- 120		20

LEIDOS **Project Name: FW SEWERS EE/CA (LL2)**

SDG #: 119145 **Folder #: 119145** **Project Number:**

Lab Control Spike Water

Analytical Run #:	126402	Analysis Date:	05/25/2016	Prep Batch #:	57430	Matrix:	LIQUID
CTLab #:	727762	Analysis Time:	15:19	Prep Date/Time:	05/25/2016 10:45	Method:	SW9012A
Parent Sample #:		Analyst:	MER	Prep Analyst:	MER		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Cyanide	43.90	ug/L			40.00	110	83 --- 116		

LEIDOS **Project Name: FW SEWERS EE/CA (LL2)**

SDG #: 119145 **Folder #: 119145** **Project Number:**

Method Blank Water

Analytical Run #:	126402	Analysis Date:	05/25/2016	Prep Batch #:	57430	Matrix:	LIQUID
CTLab #:	727761	Analysis Time:	15:22	Prep Date/Time:	05/25/2016 10:45	Method:	SW9012A
Parent Sample #:		Analyst:	MER	Prep Analyst:	MER		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Cyanide	5	ug/L		U	0		12		

LEIDOS **Project Name: FW SEWERS EE/CA (LL2)**

SDG #: 119145 **Folder #: 119145** **Project Number:**

Matrix Spike Duplicate Water

Analytical Run #:	126402	Analysis Date:	05/25/2016	Prep Batch #:	57430	Matrix:	GROUND WATER
CTLab #:	727768	Analysis Time:	15:32	Prep Date/Time:	05/25/2016 10:45	Method:	SW9012A
Parent Sample #:	727767	Analyst:	MER	Prep Analyst:	MER		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Cyanide	35.2	ug/L	BDL		40.0	88	83 --- 116	10	20

LEIDOS **Project Name: FW SEWERS EE/CA (LL2)**

SDG #: 119145 **Folder #: 119145** **Project Number:**

Matrix Spike Water

Analytical Run #:	126402	Analysis Date:	05/25/2016	Prep Batch #:	57430	Matrix:	GROUND WATER
CTLab #:	727767	Analysis Time:	15:29	Prep Date/Time:	05/25/2016 10:45	Method:	SW9012A
Parent Sample #:	725920	Analyst:	MER	Prep Analyst:	MER		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Cyanide	31.9	ug/L	BDL		40.0	80	83 --- 116		

LEIDOS **Project Name: FW SEWERS EE/CA (LL2)**

SDG #: 119145 **Folder #: 119145** **Project Number:**

Duplicate

Analytical Run #:	126420	Analysis Date:	05/27/2016	Prep Batch #:	57426	Matrix:	TCLP
CTLab #:	727726	Analysis Time:	18:20	Prep Date/Time:	05/25/2016 11:00	Method:	SW6010
Parent Sample #:	725919	Analyst:	NAH	Prep Analyst:	LJF		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Arsenic	0.00928	mg/L	0.0096				24	3	20
Barium	0.266	mg/L	0.27				1.80	1	20
Cadmium	0.00382	mg/L	0.0038				2.0	1	20
Chromium	0.00307	mg/L	0.0033				4.0	7	20
Lead	0.270	mg/L	0.27				4.0	0	20
Selenium	0.00940	mg/L	0.011				13.0	16	20
Silver	0.000700	mg/L	<0.000700	U			4.0	0	20

LEIDOS **Project Name: FW SEWERS EE/CA (LL2)**

SDG #: 119145 **Folder #: 119145** **Project Number:**

Lab Control Spike Water

Analytical Run #:	126420	Analysis Date:	05/27/2016	Prep Batch #:	57426	Matrix:	LIQUID
CTLab #:	727725	Analysis Time:	17:34	Prep Date/Time:	05/25/2016 11:00	Method:	SW6010
Parent Sample #:		Analyst:	NAH	Prep Analyst:	LJF		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Arsenic	0.860	mg/L			0.800	108	87 --- 113		
Barium	0.868	mg/L			0.800	108	88 --- 113		
Cadmium	0.0217	mg/L			0.0200	108	88 --- 113		
Chromium	0.0840	mg/L			0.0800	105	90 --- 113		
Lead	0.225	mg/L			0.200	112	86 --- 113		
Selenium	0.884	mg/L			0.800	110	83 --- 114		
Silver	0.0202	mg/L			0.0200	101	84 --- 115		

LEIDOS **Project Name: FW SEWERS EE/CA (LL2)**

SDG #: 119145 **Folder #: 119145** **Project Number:**

Method Blank Water

Analytical Run #:	126420	Analysis Date:	05/27/2016	Prep Batch #:	57426	Matrix:	LIQUID
CTLab #:	727724	Analysis Time:	17:40	Prep Date/Time:	05/25/2016 11:00	Method:	SW6010
Parent Sample #:		Analyst:	NAH	Prep Analyst:	LJF		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Arsenic	0.004	mg/L		U	0		0.012		
Barium	0.00029	mg/L		U	0		00090		
Cadmium	0.0003	mg/L		U	0		.0010		
Chromium	0.0006	mg/L		U	0		.0020		
Lead	0.0014	mg/L		U	0		.0020		
Selenium	0.0022	mg/L		U	0		.0065		
Silver	0.0007	mg/L		U	0		.0020		

LEIDOS **Project Name: FW SEWERS EE/CA (LL2)**

SDG #: 119145 **Folder #: 119145** **Project Number:**

Matrix Spike Duplicate Water

Analytical Run #:	126420	Analysis Date:	05/27/2016	Prep Batch #:	57426	Matrix:	TCLP
CTLab #:	727728	Analysis Time:	18:34	Prep Date/Time:	05/25/2016 11:00	Method:	SW6010
Parent Sample #:	727727	Analyst:	NAH	Prep Analyst:	LJF		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Arsenic	0.865	mg/L	0.0096		0.800	107	87 --- 113	2	20
Barium	1.40	mg/L	0.27		0.800	141	88 --- 113	3	20
Cadmium	0.0233	mg/L	0.0038		0.0200	98	88 --- 113	1	20
Chromium	0.0843	mg/L	0.0033		0.0800	101	90 --- 113	0	20
Lead	0.463	mg/L	0.27		0.200	96	86 --- 113	0	20
Selenium	1.02	mg/L	0.011		0.800	126	83 --- 114	1	20
Silver	0.0227	mg/L	BDL		0.0200	114	84 --- 115	2	20

LEIDOS **Project Name: FW SEWERS EE/CA (LL2)**

SDG #: 119145 **Folder #: 119145** **Project Number:**

Matrix Spike Water

Analytical Run #:	126420	Analysis Date:	05/27/2016	Prep Batch #:	57426	Matrix:	TCLP
CTLab #:	727727	Analysis Time:	18:27	Prep Date/Time:	05/25/2016 11:00	Method:	SW6010
Parent Sample #:	725919	Analyst:	NAH	Prep Analyst:	LJF		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Arsenic	0.852	mg/L	0.0096		0.800	105	87 --- 113		
Barium	1.36	mg/L	0.27		0.800	136	88 --- 113		
Cadmium	0.0236	mg/L	0.0038		0.0200	99	88 --- 113		
Chromium	0.0847	mg/L	0.0033		0.0800	102	90 --- 113		
Lead	0.461	mg/L	0.27		0.200	96	86 --- 113		
Selenium	1.03	mg/L	0.011		0.800	127	83 --- 114		
Silver	0.0223	mg/L	BDL		0.0200	112	84 --- 115		

LEIDOS **Project Name: FW SEWERS EE/CA (LL2)**

SDG #: 119145 **Folder #: 119145** **Project Number:**

Duplicate

Analytical Run #:	126512	Analysis Date:	05/31/2016	Prep Batch #:	57463	Matrix:	TCLP
CTLab #:	728737	Analysis Time:	08:26	Prep Date/Time:	05/27/2016 07:30	Method:	
Parent Sample #:	725919	Analyst:	LJF	Prep Analyst:	LJF		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Mercury	0.0000300	mg/L	<0.0000300	U			0.12	0	20

LEIDOS **Project Name: FW SEWERS EE/CA (LL2)**

SDG #: 119145 **Folder #: 119145** **Project Number:**

Lab Control Spike Water

Analytical Run #:	126512	Analysis Date:	05/31/2016	Prep Batch #:	57463	Matrix:	LIQUID
CTLab #:	728736	Analysis Time:	08:19	Prep Date/Time:	05/27/2016 07:30	Method:	
Parent Sample #:		Analyst:	LJF	Prep Analyst:	LJF		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Mercury	0.00273	mg/L			0.00300	91	82 --- 119		

LEIDOS **Project Name: FW SEWERS EE/CA (LL2)**

SDG #: 119145 **Folder #: 119145** **Project Number:**

Method Blank Water

Analytical Run #:	126512	Analysis Date:	05/31/2016	Prep Batch #:	57463	Matrix:	LIQUID
CTLab #:	728735	Analysis Time:	08:21	Prep Date/Time:	05/27/2016 07:30	Method:	
Parent Sample #:		Analyst:	LJF	Prep Analyst:	LJF		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Mercury	0.00003	mg/L		U	0		00006		

LEIDOS **Project Name: FW SEWERS EE/CA (LL2)**

SDG #: 119145 **Folder #: 119145** **Project Number:**

Matrix Spike Duplicate Water

Analytical Run #:	126512	Analysis Date:	05/31/2016	Prep Batch #:	57463	Matrix:	TCLP
CTLab #:	728739	Analysis Time:	08:34	Prep Date/Time:	05/27/2016 07:30	Method:	
Parent Sample #:	728738	Analyst:	LJF	Prep Analyst:	LJF		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Mercury	0.00196	mg/L	BDL		0.00200	98	82 --- 119	7	20

LEIDOS **Project Name: FW SEWERS EE/CA (LL2)**

SDG #: 119145 **Folder #: 119145** **Project Number:**

Matrix Spike Water

Analytical Run #:	126512	Analysis Date:	05/31/2016	Prep Batch #:	57463	Matrix:	TCLP
CTLab #:	728738	Analysis Time:	08:28	Prep Date/Time:	05/27/2016 07:30	Method:	
Parent Sample #:	725919	Analyst:	LJF	Prep Analyst:	LJF		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Mercury	0.00182	mg/L	BDL		0.00200	91	82 --- 119		

LEIDOS **Project Name: FW SEWERS EE/CA (LL2)**

SDG #: 119145 **Folder #: 119145** **Project Number:**

Lab Control Spike Soil

Analytical Run #:	126326	Analysis Date:	05/24/2016	Prep Batch #:	57397	Matrix:	SOLID
CTLab #:	727025	Analysis Time:	00:03	Prep Date/Time:	05/23/2016 13:30	Method:	SW8082
Parent Sample #:		Analyst:	JJY	Prep Analyst:	JDB		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Aroclor-1016	463	ug/kg			500	93	47 --- 134		30
Aroclor-1260	458	ug/kg			500	92	53 --- 140		30

LEIDOS **Project Name: FW SEWERS EE/CA (LL2)**

SDG #: 119145 **Folder #: 119145** **Project Number:**

Method Blank Soil

Analytical Run #:	126326	Analysis Date:	05/23/2016	Prep Batch #:	57397	Matrix:	SOLID
CTLab #:	727024	Analysis Time:	23:41	Prep Date/Time:	05/23/2016 13:30	Method:	SW8082
Parent Sample #:		Analyst:	JJY	Prep Analyst:	JDB		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Aroclor-1016	5	ug/kg		U	0		15		
Aroclor-1221	7	ug/kg		U	0		15		
Aroclor-1232	9	ug/kg		U	0		15		
Aroclor-1242	7	ug/kg		U	0		15		
Aroclor-1248	7	ug/kg		U	0		15		
Aroclor-1254	9	ug/kg		U	0		15		
Aroclor-1260	6	ug/kg		U	0		15		
Aroclor-1262	7	ug/kg		U	0		15		
Aroclor-1268	5	ug/kg		U	0		15		

LEIDOS **Project Name: FW SEWERS EE/CA (LL2)**

SDG #: 119145 **Folder #: 119145** **Project Number:**

Matrix Spike Duplicate Soil

Analytical Run #:	126326	Analysis Date:	05/24/2016	Prep Batch #:	57397	Matrix:	SOIL
CTLab #:	727028	Analysis Time:	01:29	Prep Date/Time:	05/23/2016 13:30	Method:	SW8082
Parent Sample #:	727027	Analyst:	JJY	Prep Analyst:	JDB		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Aroclor-1016	836	ug/kg	BDL		896	93	47 --- 134	3	30
Aroclor-1221	12.5		BDL	U	896	0	70 --- 130	0	30
Aroclor-1232	16.1		BDL	U	896	0	70 --- 130	0	30
Aroclor-1242	12.5		BDL	U	896	0	70 --- 130	0	30
Aroclor-1248	12.5		BDL	U	896	0	70 --- 130	0	30
Aroclor-1254	16.1		BDL	U	896	0	67 --- 135	0	30
Aroclor-1260	725	ug/kg	64.4		896	74	53 --- 140	6	30
Aroclor-1262	12.5		BDL	U	896	0	70 --- 130	0	30
Aroclor-1268	8.96		BDL	U	896	0	70 --- 130	0	30
Surr: 2,4,5,6-TCMX	110	% Recovery			100	110	44 --- 130		
Surr: DCBP	99.8	% Recovery			100	99.8	54 --- 141		

LEIDOS **Project Name: FW SEWERS EE/CA (LL2)**

SDG #: 119145 **Folder #: 119145** **Project Number:**

Matrix Spike Soil

Analytical Run #:	126326	Analysis Date:	05/24/2016	Prep Batch #:	57397	Matrix:	SOIL
CTLab #:	727027	Analysis Time:	01:07	Prep Date/Time:	05/23/2016 13:30	Method:	SW8082
Parent Sample #:	725918	Analyst:	JJY	Prep Analyst:	JDB		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Aroclor-1016	863	ug/kg	BDL		901	96	47 --- 134		
Aroclor-1221	12.6		BDL	U	901	0	70 --- 130		
Aroclor-1232	16.2		BDL	U	901	0	70 --- 130		
Aroclor-1242	12.6		BDL	U	901	0	70 --- 130		
Aroclor-1248	12.6		BDL	U	901	0	70 --- 130		
Aroclor-1254	16.2		202	U	901	0	67 --- 135		
Aroclor-1260	686	ug/kg	64.4		901	69	53 --- 140		
Aroclor-1262	12.6		BDL	U	901	0	70 --- 130		
Aroclor-1268	9.01		BDL	U	901	0	70 --- 130		
Surr: 2,4,5,6-TCMX	111	% Recovery			100	111	44 --- 130		
Surr: DCBP	91.2	% Recovery			100	91.2	54 --- 141		

LEIDOS **Project Name: FW SEWERS EE/CA (LL2)**

SDG #: 119145 **Folder #: 119145** **Project Number:**

Lab Control Spike Water

Analytical Run #:	126392	Analysis Date:	05/26/2016	Prep Batch #:		Matrix:	LIQUID
CTLab #:	728898	Analysis Time:	10:08	Prep Date/Time:		Method:	SW8260C
Parent Sample #:		Analyst:	RLD	Prep Analyst:			

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1-Dichloroethene	1.06	mg/L			1.00	106	71 --- 131		
1,2-Dichloroethane	0.935	mg/L			1.00	94	73 --- 128		
2-Butanone	9.23	mg/L			10.0	92	56 --- 143		
Benzene	1.05	mg/L			1.00	105	79 --- 120		
Carbon tetrachloride	0.996	mg/L			1.00	100	72 --- 136		
Chlorobenzene	1.02	mg/L			1.00	102	82 --- 118		
Chloroform	0.962	mg/L			1.00	96	79 --- 124		
Tetrachloroethene	1.02	mg/L			1.00	102	74 --- 129		
Trichloroethene	1.01	mg/L			1.00	101	79 --- 123		
Vinyl chloride	1.03	mg/L			1.00	103	58 --- 137		

LEIDOS **Project Name: FW SEWERS EE/CA (LL2)**

SDG #: 119145 **Folder #: 119145** **Project Number:**

Method Blank Water

Analytical Run #:	126392	Analysis Date:	05/26/2016	Prep Batch #:		Matrix:	LIQUID
CTLab #:	728900	Analysis Time:	10:37	Prep Date/Time:		Method:	SW8260C
Parent Sample #:		Analyst:	RLD	Prep Analyst:			

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1-Dichloroethene	0.00024	mg/L		U	0		00025		
1,2-Dichloroethane	0.0003	mg/L		U	0		.0005		
2-Butanone	0.0024	mg/L		U	0		.0025		
Benzene	0.00019	mg/L		U	0		00025		
Carbon tetrachloride	0.00023	mg/L		U	0		00025		
Chlorobenzene	0.00024	mg/L		U	0		00025		
Chloroform	0.00015	mg/L		U	0		00025		
Tetrachloroethene	0.0003	mg/L		U	0		.0005		
Trichloroethene	0.00021	mg/L		U	0		00025		
Vinyl chloride	0.00018	mg/L		U	0		00025		

LEIDOS **Project Name: FW SEWERS EE/CA (LL2)**

SDG #: 119145 **Folder #: 119145** **Project Number:**

Matrix Spike Duplicate Water

Analytical Run #:	126392	Analysis Date:	05/26/2016	Prep Batch #:		Matrix:	TCLP
CTLab #:	728894	Analysis Time:	12:30	Prep Date/Time:		Method:	SW8260C
Parent Sample #:	728853	Analyst:	RLD	Prep Analyst:			

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1-Dichloroethene	1.04	mg/L	BDL		1.00	104	71 --- 131	9	20
1,2 Dichloroethane-d4	105	% Recovery			100	105	81 --- 118		
1,2-Dichloroethane	0.976	mg/L	BDL		1.00	98	73 --- 128	4	20
2-Butanone	9.59	mg/L	BDL		10.0	96	56 --- 143	4	20
Benzene	1.05	mg/L	BDL		1.00	105	79 --- 120	7	20
Bromofluorobenzene	95.0	% Recovery			100	95.0	85 --- 114		
Carbon tetrachloride	0.955	mg/L	BDL		1.00	96	72 --- 136	9	20
Chlorobenzene	1.03	mg/L	BDL		1.00	103	82 --- 118	5	20
Chloroform	0.985	mg/L	BDL		1.00	98	79 --- 124	3	20
d8-Toluene	100	% Recovery			100	100	89 --- 112		
Dibromofluoromethane	100	% Recovery			100	100	80 --- 119		
Tetrachloroethene	0.988	mg/L	BDL		1.00	99	74 --- 129	5	20
Trichloroethene	1.06	mg/L	BDL		1.00	106	79 --- 123	9	20
Vinyl chloride	0.957	mg/L	BDL		1.00	96	58 --- 137	1	20

LEIDOS **Project Name: FW SEWERS EE/CA (LL2)**

SDG #: 119145 **Folder #: 119145** **Project Number:**

Matrix Spike Water

Analytical Run #:	126392	Analysis Date:	05/26/2016	Prep Batch #:		Matrix:	TCLP
CTLab #:	728853	Analysis Time:	12:02	Prep Date/Time:		Method:	SW8260C
Parent Sample #:	725919	Analyst:	RLD	Prep Analyst:			

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1-Dichloroethene	0.953	mg/L	BDL		1.00	95	71 --- 131		20
1,2 Dichloroethane-d4	101	% Recovery			100	101	81 --- 118		
1,2-Dichloroethane	0.938	mg/L	BDL		1.00	94	73 --- 128		20
2-Butanone	9.18	mg/L	BDL		10.0	92	56 --- 143		20
Benzene	0.975	mg/L	BDL		1.00	98	79 --- 120		20
Bromofluorobenzene	95.0	% Recovery			100	95.0	85 --- 114		
Carbon tetrachloride	0.876	mg/L	BDL		1.00	88	72 --- 136		20
Chlorobenzene	0.978	mg/L	BDL		1.00	98	82 --- 118		20
Chloroform	0.954	mg/L	BDL		1.00	95	79 --- 124		20
d8-Toluene	101	% Recovery			100	101	89 --- 112		
Dibromofluoromethane	100	% Recovery			100	100	80 --- 119		
Tetrachloroethene	0.944	mg/L	BDL		1.00	94	74 --- 129		20
Trichloroethene	0.965	mg/L	BDL		1.00	96	79 --- 123		20
Vinyl chloride	0.949	mg/L	BDL		1.00	95	58 --- 137		20

LEIDOS **Project Name: FW SEWERS EE/CA (LL2)**

SDG #: 119145 **Folder #: 119145** **Project Number:**

Lab Control Spike Water

Analytical Run #:	126448	Analysis Date:	05/26/2016	Prep Batch #:	57362	Matrix:	LIQUID
CTLab #:	726436	Analysis Time:	16:41	Prep Date/Time:	05/25/2016 09:00	Method:	SW8082
Parent Sample #:		Analyst:	JJY	Prep Analyst:	AJZ		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Aroclor-1016	4.42	ug/L			5.00	88	46 --- 129		30
Aroclor-1260	4.11	ug/L			5.00	82	45 --- 134		30

LEIDOS **Project Name: FW SEWERS EE/CA (LL2)**

SDG #: 119145 **Folder #: 119145** **Project Number:**

Method Blank Water

Analytical Run #:	126448	Analysis Date:	05/26/2016	Prep Batch #:	57362	Matrix:	LIQUID
CTLab #:	726435	Analysis Time:	16:19	Prep Date/Time:	05/25/2016 09:00	Method:	SW8082
Parent Sample #:		Analyst:	JJY	Prep Analyst:	AJZ		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Aroclor-1016	0.113	ug/L		U	0		0.50		
Aroclor-1221	0.085	ug/L		U	0		0.50		
Aroclor-1232	0.145	ug/L		U	0		0.50		
Aroclor-1242	0.096	ug/L		U	0		0.50		
Aroclor-1248	0.088	ug/L		U	0		0.50		
Aroclor-1254	0.094	ug/L		U	0		0.50		
Aroclor-1260	0.099	ug/L		U	0		0.50		
Aroclor-1262	0.28	ug/L		U	0		0.50		
Aroclor-1268	0.056	ug/L		U	0		0.50		

LEIDOS **Project Name: FW SEWERS EE/CA (LL2)**

SDG #: 119145 **Folder #: 119145** **Project Number:**

Matrix Spike Duplicate Water

Analytical Run #:	126448	Analysis Date:	05/26/2016	Prep Batch #:	57362	Matrix:	GROUND WATER
CTLab #:	726439	Analysis Time:	18:07	Prep Date/Time:	05/25/2016 09:00	Method:	SW8082
Parent Sample #:	726438	Analyst:	JJY	Prep Analyst:	AJZ		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Aroclor-1016	4.33	ug/L	BDL		5.21	83	46 --- 129	1	30
Aroclor-1221	0.0885		BDL	U	5.21	0	70 --- 130	0	30
Aroclor-1232	0.151		BDL	U	5.21	0	70 --- 130	0	30
Aroclor-1242	0.100		BDL	U	5.21	0	70 --- 130	0	30
Aroclor-1248	0.0917		BDL	U	5.21	0	70 --- 130	0	30
Aroclor-1254	0.0979		BDL	U	5.21	0	34 --- 127	0	30
Aroclor-1260	3.52	ug/L	BDL		5.21	68	45 --- 134	0	30
Aroclor-1262	0.292		BDL	U	5.21	0	70 --- 130	0	30
Aroclor-1268	0.0583		BDL	U	5.21	0	70 --- 130	0	30
Surr: 2,4,5,6-TCMX	101	% Recovery			100	101	38 --- 137		
Surr: DCBP	80.1	% Recovery			100	80.1	23 --- 147		

LEIDOS **Project Name: FW SEWERS EE/CA (LL2)**

SDG #: 119145 **Folder #: 119145** **Project Number:**

Matrix Spike Water

Analytical Run #:	126448	Analysis Date:	05/26/2016	Prep Batch #:	57362	Matrix:	GROUND WATER
CTLab #:	726438	Analysis Time:	17:45	Prep Date/Time:	05/25/2016 09:00	Method:	SW8082
Parent Sample #:	725920	Analyst:	JJY	Prep Analyst:	AJZ		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Aroclor-1016	4.34	ug/L	BDL		5.15	84	46 --- 129		
Aroclor-1221	0.0876		BDL	U	5.15	0	70 --- 130		
Aroclor-1232	0.149		BDL	U	5.15	0	70 --- 130		
Aroclor-1242	0.0990		BDL	U	5.15	0	70 --- 130		
Aroclor-1248	0.0907		BDL	U	5.15	0	70 --- 130		
Aroclor-1254	0.0969		BDL	U	5.15	0	34 --- 127		
Aroclor-1260	3.48	ug/L	BDL		5.15	68	45 --- 134		
Aroclor-1262	0.289		BDL	U	5.15	0	70 --- 130		
Aroclor-1268	0.0577		BDL	U	5.15	0	70 --- 130		
Surr: 2,4,5,6-TCMX	101	% Recovery			100	101	38 --- 137		
Surr: DCBP	80.1	% Recovery			100	80.1	23 --- 147		

LEIDOS **Project Name: FW SEWERS EE/CA (LL2)**

SDG #: 119145 **Folder #: 119145** **Project Number:**

Lab Control Spike Water

Analytical Run #:	126450	Analysis Date:	05/26/2016	Prep Batch #:	57418	Matrix:	LIQUID
CTLab #:	727672	Analysis Time:	15:57	Prep Date/Time:	05/25/2016 09:00	Method:	SW8081
Parent Sample #:		Analyst:	JJY	Prep Analyst:	AJZ		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
alpha-Chlordane	0.000463	mg/L			0.000400	116	65 --- 125		30
Chlordane (Technical)	0.00259	mg/L			0.00250	104	50 --- 150		30
Endrin	0.000529	mg/L			0.000400	132	55 --- 135		30
gamma-Chlordane	0.000464	mg/L			0.000400	116	60 --- 125		30
Heptachlor	0.000480	mg/L			0.000400	120	40 --- 130		30
Heptachlor epoxide	0.000458	mg/L			0.000400	114	60 --- 130		30
Lindane	0.000453	mg/L			0.000400	113	25 --- 135		30
Methoxychlor	0.000536	mg/L			0.000400	134	55 --- 150		30
Toxaphene	0.00233	mg/L			0.00250	93	50 --- 150		30

LEIDOS **Project Name: FW SEWERS EE/CA (LL2)**

SDG #: 119145 **Folder #: 119145** **Project Number:**

Method Blank Water

Analytical Run #:	126450	Analysis Date:	05/26/2016	Prep Batch #:	57418	Matrix:	LIQUID
CTLab #:	727671	Analysis Time:	15:41	Prep Date/Time:	05/25/2016 09:00	Method:	SW8081
Parent Sample #:		Analyst:	JJY	Prep Analyst:	AJZ		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
alpha-Chlordane	0.000009	mg/L		U	0		00020		
Chlordane (Technical)	0.000102	mg/L		U	0		00025		
Endrin	0.000006	mg/L		U	0		00012		
gamma-Chlordane	0.000007	mg/L		U	0		00020		
Heptachlor	0.000006	mg/L		U	0		00012		
Heptachlor epoxide	0.000007	mg/L		U	0		00012		
Lindane	0.000007	mg/L		U	0		00012		
Methoxychlor	0.000006	mg/L		U	0		00020		
Toxaphene	0.000176	mg/L		U	0		00025		

LEIDOS **Project Name: FW SEWERS EE/CA (LL2)**

SDG #: 119145 **Folder #: 119145** **Project Number:**

Matrix Spike Water

Analytical Run #:	126450	Analysis Date:	05/26/2016	Prep Batch #:	57418	Matrix:	TCLP
CTLab #:	727674	Analysis Time:	17:03	Prep Date/Time:	05/25/2016 09:00	Method:	SW8081
Parent Sample #:	725919	Analyst:	JJY	Prep Analyst:	AJZ		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
alpha-Chlordane	0.00440	mg/L	BDL		0.00400	110	65 --- 125		
Chlordane (Technical)	0.00102	mg/L	BDL	U	0.0500	0	50 --- 150		
Endrin	0.00518	mg/L	BDL		0.00400	130	55 --- 135		
gamma-Chlordane	0.00445	mg/L	BDL		0.00400	111	60 --- 125		
Heptachlor	0.00455	mg/L	BDL		0.00400	114	40 --- 130		
Heptachlor epoxide	0.00431	mg/L	BDL		0.00400	108	60 --- 130		
Lindane	0.00432	mg/L	BDL		0.00400	108	25 --- 135		
Methoxychlor	0.00516	mg/L	BDL		0.00400	129	55 --- 150		
SURR:2,4,5,6-CL4-m-xylene	92.8	% Recovery			100	92.8	25 --- 140		
SURR:Decachlorobiphenyl	106	% Recovery			100	106	30 --- 135		
Toxaphene	0.00176	mg/L	BDL	U	0.0500	0	50 --- 150		

LEIDOS **Project Name: FW SEWERS EE/CA (LL2)**

SDG #: 119145 **Folder #: 119145** **Project Number:**

Lab Control Spike Water

Analytical Run #:	126456	Analysis Date:	06/01/2016	Prep Batch #:	57390	Matrix:	LIQUID
CTLab #:	726968	Analysis Time:	15:42	Prep Date/Time:	05/23/2016 08:00	Method:	SW8330B
Parent Sample #:		Analyst:	RED	Prep Analyst:	SRT		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,3,5-Trinitrobenzene	1.73	ug/L			2.00	86	73 --- 125		20
1,3-Dinitrobenzene	1.93	ug/L			2.00	96	78 --- 120		20
2,4,6-Trinitrotoluene	1.94	ug/L			2.00	97	71 --- 123		20
2,4-Dinitrotoluene	1.74	ug/L			2.00	87	78 --- 120		20
2,6-Dinitrotoluene	2.11	ug/L			2.00	106	77 --- 127		20
2-Amino-4,6-dinitrotoluene	1.79	ug/L			2.00	90	79 --- 120		20
2-Nitrotoluene	1.69	ug/L			2.00	84	70 --- 127		20
3,5-Dinitroaniline	1.92	ug/L			2.00	96	71 --- 117		20
3-Nitrotoluene	1.81	ug/L			2.00	90	73 --- 125		20
4-Amino-2,6-dinitrotoluene	1.96	ug/L			2.00	98	76 --- 125		20
4-Nitrotoluene	1.78	ug/L			2.00	89	71 --- 127		20
HMX	1.89	ug/L			2.00	94	65 --- 135		20
Nitrobenzene	1.56	ug/L			2.00	78	65 --- 134		20
Nitroglycerin	4.08	ug/L			4.00	102	74 --- 127		20
PETN	4.31	ug/L			4.00	108	73 --- 127		20
RDX	1.89	ug/L			2.00	94	68 --- 130		20
Tetryl	1.96	ug/L			2.00	98	64 --- 128		20

LEIDOS **Project Name: FW SEWERS EE/CA (LL2)**

SDG #: 119145 **Folder #: 119145** **Project Number:**

Method Blank Water

Analytical Run #:	126456	Analysis Date:	06/01/2016	Prep Batch #:	57390	Matrix:	LIQUID
CTLab #:	726967	Analysis Time:	15:23	Prep Date/Time:	05/23/2016 08:00	Method:	SW8330B
Parent Sample #:		Analyst:	RED	Prep Analyst:	SRT		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,3,5-Trinitrobenzene	0.019	ug/L		U	0		0.040		
1,3-Dinitrobenzene	0.015	ug/L		U	0		0.040		
2,4,6-Trinitrotoluene	0.026	ug/L		U	0		0.080		
2,4-Dinitrotoluene	0.011	ug/L		U	0		0.020		
2,6-Dinitrotoluene	0.011	ug/L		U	0		0.020		
2-Amino-4,6-dinitrotoluene	0.014	ug/L		U	0		0.040		
2-Nitrotoluene	0.025	ug/L		U	0		0.080		
3,5-Dinitroaniline	0.017	ug/L		U	0		0.040		
3-Nitrotoluene	0.012	ug/L		U	0		0.020		
4-Amino-2,6-dinitrotoluene	0.016	ug/L		U	0		0.040		
4-Nitrotoluene	0.021	ug/L		U	0		0.040		
HMX	0.020	ug/L		U	0		0.040		
Nitrobenzene	0.019	ug/L		U	0		0.040		
Nitroglycerin	0.05	ug/L		U	0		0.16		
PETN	0.07	ug/L		U	0		0.16		
RDX	0.017	ug/L		U	0		0.040		
Tetryl	0.025	ug/L		U	0		0.080		

LEIDOS **Project Name: FW SEWERS EE/CA (LL2)**

SDG #: 119145 **Folder #: 119145** **Project Number:**

Lab Control Spike Water

Analytical Run #:	126465	Analysis Date:	05/26/2016	Prep Batch #:	57419	Matrix:	LIQUID
CTLab #:	727676	Analysis Time:	14:31	Prep Date/Time:	05/25/2016 00:00	Method:	SW8270
Parent Sample #:		Analyst:	RPN	Prep Analyst:	AJZ		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,4-Dichlorobenzene	0.0149	mg/L			0.0200	74	29 --- 112		20
2,4,5-Trichlorophenol	0.0174	mg/L			0.0200	87	53 --- 123		20
2,4,6-Trichlorophenol	0.0175	mg/L			0.0200	88	50 --- 125		20
2,4-Dinitrotoluene	0.0184	mg/L			0.0200	92	57 --- 128		20
2-Methylphenol	0.0145	mg/L			0.0200	72	30 --- 117		20
3 & 4-Methylphenol	0.0142	mg/L			0.0200	71	29 --- 110		20
Hexachlorobenzene	0.0179	mg/L			0.0200	90	53 --- 125		20
Hexachlorobutadiene	0.0151	mg/L			0.0200	76	22 --- 124		20
Hexachloroethane	0.0145	mg/L			0.0200	72	21 --- 115		20
Nitrobenzene	0.0154	mg/L			0.0200	77	45 --- 121		20
Pentachlorophenol	0.0192	mg/L			0.0200	96	35 --- 138		20
Pyridine	0.00852	mg/L			0.0200	43	0 --- 106		20

LEIDOS **Project Name: FW SEWERS EE/CA (LL2)**

SDG #: 119145 **Folder #: 119145** **Project Number:**

Method Blank Water

Analytical Run #:	126465	Analysis Date:	05/26/2016	Prep Batch #:	57419	Matrix:	LIQUID
CTLab #:	727675	Analysis Time:	13:51	Prep Date/Time:	05/25/2016 00:00	Method:	SW8270
Parent Sample #:		Analyst:	RPN	Prep Analyst:	AJZ		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,4-Dichlorobenzene	0.00019	mg/L		U	0		00050		
2,4,5-Trichlorophenol	0.0011	mg/L		U	0		.0025		
2,4,6-Trichlorophenol	0.0010	mg/L		U	0		.0025		
2,4-Dinitrotoluene	0.00021	mg/L		U	0		00050		
2-Methylphenol	0.00086	mg/L		U	0		02500		
3 & 4-Methylphenol	0.0014	mg/L		U	0		.0045		
Hexachlorobenzene	0.00027	mg/L		U	0		00050		
Hexachlorobutadiene	0.00018	mg/L		U	0		00050		
Hexachloroethane	0.00022	mg/L		U	0		00050		
Nitrobenzene	0.00016	mg/L		U	0		00050		
Pentachlorophenol	0.0011	mg/L		U	0		.0025		
Pyridine	0.00062	mg/L		U	0		00200		

LEIDOS **Project Name: FW SEWERS EE/CA (LL2)**

SDG #: 119145 **Folder #: 119145** **Project Number:**

Matrix Spike Water

Analytical Run #:	126465	Analysis Date:	05/26/2016	Prep Batch #:	57419	Matrix:	TCLP
CTLab #:	727678	Analysis Time:	15:31	Prep Date/Time:	05/25/2016 00:00	Method:	SW8270
Parent Sample #:	725919	Analyst:	RPN	Prep Analyst:	AJZ		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,4-Dichlorobenzene	0.133	mg/L	BDL		0.200	66	29 --- 112		
2,4,5-Trichlorophenol	0.172	mg/L	BDL		0.200	86	53 --- 123		
2,4,6-Trichlorophenol	0.169	mg/L	BDL		0.200	84	50 --- 125		
2,4-Dinitrotoluene	0.184	mg/L	BDL		0.200	92	57 --- 128		
2-Methylphenol	0.137	mg/L	BDL		0.200	68	30 --- 117		
3 & 4-Methylphenol	0.131	mg/L	BDL		0.200	66	29 --- 110		
Hexachlorobenzene	0.179	mg/L	BDL		0.200	90	53 --- 125		
Hexachlorobutadiene	0.145	mg/L	BDL		0.200	72	22 --- 124		
Hexachloroethane	0.132	mg/L	BDL		0.200	66	21 --- 115		
Nitrobenzene	0.147	mg/L	BDL		0.200	74	45 --- 121		
Pentachlorophenol	0.206	mg/L	BDL		0.200	103	35 --- 138		
Pyridine	0.0209	mg/L	BDL		0.200	10	0 --- 106		
Surr: 2,4,6-Tribromophenol	92.9	% Recovery			100	92.9	43 --- 140		
Surr: 2-Fluorobiphenyl	77.6	% Recovery			100	77.6	44 --- 119		
Surr: 2-Fluorophenol	44.7	% Recovery			100	44.7	19 --- 119		
Surr: Nitrobenzene-d5	73.7	% Recovery			100	73.7	44 --- 120		
Surr: Phenol-d5	33.5	% Recovery			100	33.5	1 --- 114		
Surr: Terphenyl-d14	93.1	% Recovery			100	93.1	50 --- 134		

LEIDOS **Project Name: FW SEWERS EE/CA (LL2)**

SDG #: 119145 **Folder #: 119145** **Project Number:**

Lab Control Spike Soil

Analytical Run #:	126534	Analysis Date:	06/02/2016	Prep Batch #:	57393	Matrix:	SOLID
CTLab #:	726976	Analysis Time:	13:37	Prep Date/Time:	05/26/2016 11:30	Method:	SW8330B
Parent Sample #:		Analyst:	RED	Prep Analyst:	RED		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,3,5-Trinitrobenzene	1.89	mg/kg			2.00	94	80 --- 116		
1,3-Dinitrobenzene	2.04	mg/kg			2.00	102	74 --- 120		
2,4,6-Trinitrotoluene	2.07	mg/kg			2.00	104	71 --- 120		
2,4-Dinitrotoluene	1.76	mg/kg			2.00	88	75 --- 121		
2,6-Dinitrotoluene	2.30	mg/kg			2.00	115	79 --- 117		
2-Amino-4,6-dinitrotoluene	1.86	mg/kg			2.00	93	71 --- 123		
2-Nitrotoluene	1.95	mg/kg			2.00	98	70 --- 124		
3,5-Dinitroaniline	2.07	mg/kg			2.00	104	86 --- 118		
3-Nitrotoluene	2.01	mg/kg			2.00	100	67 --- 129		
4-Amino-2,6-dinitrotoluene	2.05	mg/kg			2.00	102	64 --- 127		
4-Nitrotoluene	1.99	mg/kg			2.00	100	71 --- 124		
HMX	2.00	mg/kg			2.00	100	74 --- 124		
Nitrobenzene	1.66	mg/kg			2.00	83	67 --- 129		
Nitroglycerin	4.26	mg/kg			4.00	106	73 --- 124		
PETN	4.38	mg/kg			4.00	110	72 --- 128		
RDX	1.95	mg/kg			2.00	98	67 --- 129		
Tetryl	2.10	mg/kg			2.00	105	68 --- 135		

LEIDOS **Project Name: FW SEWERS EE/CA (LL2)**

SDG #: 119145 **Folder #: 119145** **Project Number:**

Method Blank Soil

Analytical Run #:	126534	Analysis Date:	06/02/2016	Prep Batch #:	57393	Matrix:	SOLID
CTLab #:	726975	Analysis Time:	13:18	Prep Date/Time:	05/26/2016 11:30	Method:	SW8330B
Parent Sample #:		Analyst:	RED	Prep Analyst:	RED		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,3,5-Trinitrobenzene	0.13	mg/kg		U	0		0.25		
1,3-Dinitrobenzene	0.08	mg/kg		U	0		0.15		
2,4,6-Trinitrotoluene	0.09	mg/kg		U	0		0.25		
2,4-Dinitrotoluene	0.08	mg/kg		U	0		0.15		
2,6-Dinitrotoluene	0.07	mg/kg		U	0		0.15		
2-Amino-4,6-dinitrotoluene	0.09	mg/kg		U	0		0.15		
2-Nitrotoluene	0.09	mg/kg		U	0		0.15		
3,5-Dinitroaniline	0.09	mg/kg		U	0		0.30		
3-Nitrotoluene	0.11	mg/kg		U	0		0.25		
4-Amino-2,6-dinitrotoluene	0.08	mg/kg		U	0		0.15		
4-Nitrotoluene	0.10	mg/kg		U	0		0.25		
HMX	0.12	mg/kg		U	0		0.25		
Nitrobenzene	0.10	mg/kg		U	0		0.25		
Nitroglycerin	0.5	mg/kg		U	0		1.0		
PETN	0.6	mg/kg		U	0		1.0		
RDX	0.14	mg/kg		U	0		0.25		
Tetryl	0.09	mg/kg		U	0		0.25		

LEIDOS **Project Name: FW SEWERS EE/CA (LL2)**

SDG #: 119145 **Folder #: 119145** **Project Number:**

Matrix Spike Duplicate Soil

Analytical Run #:	126534	Analysis Date:	06/02/2016	Prep Batch #:	57393	Matrix:	SOIL
CTLab #:	726978	Analysis Time:	15:23	Prep Date/Time:	05/26/2016 11:30	Method:	SW8330B
Parent Sample #:	726977	Analyst:	RED	Prep Analyst:	RED		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,2-Dinitrobenzene	106	% Recovery			100	106	78 --- 119		
1,3,5-Trinitrobenzene	1.55	mg/kg	BDL		2.00	78	80 --- 116	3	20
1,3-Dinitrobenzene	1.82	mg/kg	BDL		2.00	91	73 --- 119	0	20
2,4,6-Trinitrotoluene	1.83	mg/kg	BDL		2.00	92	71 --- 120	4	20
2,4-Dinitrotoluene	1.59	mg/kg	BDL		2.00	80	75 --- 121	5	20
2,6-Dinitrotoluene	2.12	mg/kg	BDL		2.00	106	79 --- 117	10	20
2-Amino-4,6-dinitrotoluene	1.61	mg/kg	BDL		2.00	80	71 --- 123	5	20
2-Nitrotoluene	1.76	mg/kg	BDL		2.00	88	70 --- 124	4	20
3,5-Dinitroaniline	1.72	mg/kg	BDL		2.00	86	86 --- 118	0	20
3-Nitrotoluene	1.77	mg/kg	BDL		2.00	88	67 --- 129	3	20
4-Amino-2,6-dinitrotoluene	1.72	mg/kg	BDL		2.00	86	64 --- 127	3	20
4-Nitrotoluene	1.86	mg/kg	BDL		2.00	93	71 --- 124	2	20
HMX	2.00	mg/kg	BDL		2.00	100	74 --- 124	2	20
Nitrobenzene	1.48	mg/kg	BDL		2.00	74	67 --- 129	0	20
Nitroglycerin	3.85	mg/kg	BDL		4.00	96	73 --- 124	6	20
PETN	3.54	mg/kg	BDL		4.00	88	72 --- 128	1	20
RDX	1.57	mg/kg	BDL		2.00	78	67 --- 129	3	20
Tetryl	1.60	mg/kg	BDL		2.00	80	68 --- 135	4	20

LEIDOS **Project Name: FW SEWERS EE/CA (LL2)**

SDG #: 119145 **Folder #: 119145** **Project Number:**

Matrix Spike Soil

Analytical Run #:	126534	Analysis Date:	06/02/2016	Prep Batch #:	57393	Matrix:	SOIL
CTLab #:	726977	Analysis Time:	14:50	Prep Date/Time:	05/26/2016 11:30	Method:	SW8330B
Parent Sample #:	725918	Analyst:	RED	Prep Analyst:	RED		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,2-Dinitrobenzene	108	% Recovery			100	108	78 --- 119		
1,3,5-Trinitrobenzene	1.50	mg/kg	BDL		1.98	76	80 --- 116		
1,3-Dinitrobenzene	1.82	mg/kg	BDL		1.98	92	73 --- 119		
2,4,6-Trinitrotoluene	1.74	mg/kg	BDL		1.98	88	71 --- 120		
2,4-Dinitrotoluene	1.50	mg/kg	BDL		1.98	76	75 --- 121		
2,6-Dinitrotoluene	1.91	mg/kg	BDL		1.98	96	79 --- 117		
2-Amino-4,6-dinitrotoluene	1.52	mg/kg	BDL		1.98	77	71 --- 123		
2-Nitrotoluene	1.68	mg/kg	BDL		1.98	85	70 --- 124		
3,5-Dinitroaniline	1.71	mg/kg	BDL		1.98	86	86 --- 118		
3-Nitrotoluene	1.71	mg/kg	BDL		1.98	86	67 --- 129		
4-Amino-2,6-dinitrotoluene	1.65	mg/kg	BDL		1.98	83	64 --- 127		
4-Nitrotoluene	1.89	mg/kg	BDL		1.98	95	71 --- 124		
HMX	1.94	mg/kg	BDL		1.98	98	74 --- 124		
Nitrobenzene	1.48	mg/kg	BDL		1.98	75	67 --- 129		
Nitroglycerin	3.59	mg/kg	BDL		3.97	90	73 --- 124		
PETN	3.48	mg/kg	BDL		3.97	88	72 --- 128		
RDX	1.51	mg/kg	BDL		1.98	76	67 --- 129		
Tetryl	1.66	mg/kg	BDL		1.98	84	68 --- 135		

CT LABORATORIES
delivering more than data from your environmental analyses

Sample Condition Report

Folder #: 119145
Client: LEIDOS

Print Date / Time: 05/19/2016 15:17
Received Date / Time / By: 05/19/2016 1043 CHB

Project Name: RVAAP
Project Phase:

Log-In Date / Time / By: 05/19/2016 1445 BNA
Project #: PM: ETK

Coolers: 3221
Custody Seals Present : **Y**

Temperature: 1.8 C On Ice: **Y**
COC Present:? **Y** Complete? **Y**

Seal Intact? **Y**
Ship Method: UPS NEXT DAY AIR
Adequate Packaging: **Y**

Numbers: SIGNED AND DATED
Tracking Number: 1Z76449F0191192253
Temp Blank Enclosed? **Y**

Notes: SAMPLES RECEIVED IN GOOD CONDITION INTACT ON ICE WITH CUSTODY SEALS SIGNED AND DATED

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
725918 PBA13-IDW-2541-WS				
	SOLIDS	1	/	%SOL,pH,FLASH
	Total # of Containers of Type (*SOLIDS*) = 1			
725918 PBA13-IDW-2541-WS				
	UNPRES GL	1	/	PCB
	Total # of Containers of Type (*UNPRES GL*) = 1			

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
725919 PBA13-IDW-2541-WS				
	AMBER GL	1	/	8270,PEST,HERB
	Total # of Containers of Type (*AMBER GL*) = 1			
725919 PBA13-IDW-2541-WS				
	SOLIDS	1	/	HG,ICP
	Total # of Containers of Type (*SOLIDS*) = 1			
725919 PBA13-IDW-2541-WS				
	JAR GL	1	/	VOC
	Total # of Containers of Type (*JAR GL*) = 1			

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
725920 PBA13-IDW-2542-WW				
	NAOH PL	1	/	CYN
	Total # of Containers of Type (*NAOH PL*) = 1			
725920 PBA13-IDW-2542-WW				
	AMBER GL	1	/	EXPL,PCB
	AMBER GL	1	/	EXPL,PCB

	AMBER GL	1	/	EXPL,PCB
	AMBER GL	1	/	EXPL,PCB
	AMBER GL	1	/	EXPL,PCB
	AMBER GL	1	/	EXPL,PCB
	AMBER GL	1	/	EXPL,PCB
	Total # of Containers of Type	**(*AMBER GL*) = 7**		

725920 PBA13-IDW-2542-WW

	UNPRES PL	1	/	FLASH,pH
	Total # of Containers of Type	**(*UNPRES PL*) = 1**		

725920 PBA13-IDW-2542-WW

	NAOH W/ZNAC	1	/	SLFD
	Total # of Containers of Type	**(*NAOH W/ZNAC*) = 1**		

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

---

725921 PBA13-IDW-2542-WW

	AMBER GL	1	/	8270,PEST,HERB
	AMBER GL	1	/	8270,PEST,HERB
	AMBER GL	1	/	8270,PEST,HERB
	AMBER GL	1	/	8270,PEST,HERB
	AMBER GL	1	/	8270,PEST,HERB
	AMBER GL	1	/	8270,PEST,HERB
	Total # of Containers of Type	**(*AMBER GL*) = 6**		

725921 PBA13-IDW-2542-WW

	HNO3	1	/	HG,ICP
	Total # of Containers of Type	**(*HNO3*) = 1**		

725921 PBA13-IDW-2542-WW

	VOA	1	/	VOC
	VOA	1	/	VOC
	VOA	1	/	VOC
	Total # of Containers of Type	**(*VOA*) = 3**		

Condition Code	*Condition Description*
1	Sample Received OK

119145

leidos

Chain of Custody Record

Leidos, Inc.

COC No.: FWS-EECA-002

Page 1 of 1 Date: 5/18/16

Name: Leidos
Address: 8866 Commons Blvd. Twinsburg, OH 44087
Phone Number: 330-405-5802
Project Manager: ~~Tasa Peterson~~ JEDTHOMAS FWSEWERS EECA
Project Name: ~~PBA13 Sediment and Surface Water Sampling at LL1~~ (LL2)
Job/P.O. #: ~~210000.0008.30.002.xx~~ PO:P010183168
Sampler (Signature) RSmd (Printed Name) RichSprinzl

Requested Parameters

Laboratory No.	Field Sample #	Location ID	Depth	Date	Time	Matrix	TCLP VOCs (A1) S	TCLP Pest/Herb/Metals/SVOC/pH/Ignitability/Sulfide/cyanide/Wet Chem (A 4,3,9,2) S	PCBs (A5) S	TCLP VOCs (A1) L	TCLP SVOC/Pest/PCB/Herb L	TCLP Metal (A9) L	Total Cyanide L	Explosives (A7) L	pH/Ignitability/Sulfide L	Sulfide						No. of Containers
PBA13-IDW-254-WS		IDW	NA	5/18/16	1225	S	1	1	1													3
PBA13-IDW-254-WW		IDW	NA	5/18/16	1340	L				3	2	1	1	2	1	1						11

RS 5/18/16

Laboratory Name: CT Labs
Address: 1230 Lange Court
Baraboo, WI 53913
Phone: 608-356-2760
Fax:
Contact: Eric Korthals

OBSERVATIONS, COMMENTS SPECIAL INSTRUCTIONS

1/3 full drum 725918/725919
15gal in drum 725920/725921

Subtotal Number of Containers: 14
Total 14

Relinquished by	Date	Received by	Date
Signature RSmd	5/18/16	Signature	
Printed Name RichSprinzl	Time 1420	Printed Name	Time
Company LEIDOS		Company	
Relinquished by	Date	Received by	Date 5-19-16
Signature		Signature	
	Time	Printed Name	Time 1445
		Company	

Notes:
A. Cool 4°C
B. HCl to pH<2, Cool 4°C
C. HNO3 to pH<2

Methods:
1.) SW 846 8260
2.) SW 846 8270D
3.) SW 846 8151A
4.) SW 846 8081B
5.) SW 846 8082A
6.) SW 846 6020A/7470A
7.) SW 846 8330A
8.) EPA 600
9.) SW 846 6010C

*TCLP Pest/Herb/Metals/SVOC/pH/Ignitability

*10 DAY RUSH TAT FOR COMPLETE DATA PACKAGE

VOC = volatile organic compound
SVOC = semi-volatile organic compound

L = Liquid matrix
S = Soil/solid matrix

Shipment Method: ~~Courier~~ UPS
1Z76449F0191192253

Folder #: 119145
Company: LEIDOS
Project: RVAAP
Logged By: JLS PM: ET

Cooler Receipt Form

Present (YES) NO

Temperature 1.8

Gun # 10

Seals CHB

Date 5/19/16 Time 10:43

Cooler #: 3221

HEATHER ADAMS
330.5738571
LEIDOS
8866 COMMONS BLVD
TWINSBURG OH 44087

50 LBS

1 OF 1

SHIP TO:
ERIC KORTHALS
608-356-2760
CT LABS
1230 LANGE COURT
BARABOO WI 53913-3109

WI 539 0-10

UPS NEXT DAY AIR

TRACKING #: 1Z 764 49F 01 9119 2253

1

CUSTODY SEAL
DATE 5/19/16
SIGNATURE

QEC
Quality Environmental Containers
800-255-3950 • 304-255-3900

CUSTODY SEAL
DATE 5/19/16
SIGNATURE

QEC
Quality Environmental Containers
800-255-3950 • 304-255-3900

WASTE PROFILE FORMS

US ecology

Profile Tracking # _____

WASTE PROFILE FORM

For assistance in completing this document or for additional information on service offerings, please visit our website at www.usecology.com, or call 800-592-5489.

US Ecology will choose the appropriate facility and method of waste management for your waste from the technologies offered at each operation.

If you wish to direct this waste to a specific facility(s) or treatment technology please indicate here:

Waste Common Name: IDW Soil cuttings

Section 1 – Generator & Customer Information

Generator EPA ID # OH5210020736
NAICS/SIC Code
Generator Former Ravenna Army Ammunition Plant
Facility Address 8451 State Route 5
City Ravenna State Ohio Zip 44266
24-hour Emergency Response Number
1-800-275-6629
Mailing Address 1438 State Route 534 SW
City Newton Falls State Ohio Zip 44444
Generator Contact Katie Tait
Title Environmental Specialist 2
Phone 614-336-6136 Fax
E-mail kathryn.s.tait.nfg@mail.mil

Internal Use Only: EQ Division
EQ Customer No.
Invoicing Company
Address
City State Zip
Country
Invoicing Contact
Phone Fax
Technical Contact
Phone Fax
Cell Phone
E-mail

Section 2 – Shipping & Packaging Information

2.1) Shipping Volume & Frequency:
a) Volume of Waste to be Shipped: 55 gallon drum
b) Frequency: ☒ One time ☐ Month ☐ Year ☐ Other:

2.2) DOT Information
a) Is this a U.S. Department of Transportation (USDOT) Hazardous Material? ☐ Yes ☒ No
b) If "Yes", indicate the proper shipping name per 49CFR 172.101 Hazardous Materials Table:

Section 3 – Special Properties

3.1) Color brown
3.2) Odor ☒ None ☐ Ammonia ☐ Amines ☐ Mercaptans ☐ Sulfur ☐ Organic Acid ☐ Amines/Ammonia ☐ Other:
3.3) Consistency at 70°F: ☒ Solid ☐ Dust/Powder ☐ Debris ☐ Sludge ☐ Liquid ☐ Gas/Aerosol ☐ Varies
3.4) What is the pH? ☐ ≤2 ☐ 2.1-4.9 ☒ 5 – 10 ☐ 10.1 – 12.4 ☐ ≥12.5 ☐ N/A

3.5) What is the flash point? ☐ <90°F ☐ 90-139°F ☒ 140-199°F ☐ >200°F ☐ N/A

3.6) Does this waste exhibit any of the following properties? **(check all that apply)**

☒ **None**	☐ Free Liquids	☐ Metal Fines	☐ Water Reactive	☐ Biohazard
☐ Shock Sensitive	☐ Oily Residue	☐ Dioxins	☐ Furans	☐ Aluminum
☐ Asbestos – non-friable	☐ Asbestos – friable	☐ Other Radioactive	☐ Air Reactive	☐ Isocyanates
☐ Biodegradable Sorbents	☐ Pyrophoric	☐ Reactive Sulfide	☐ Reactive Cyanide	☐ Explosives
☐ Temperature Controlled Organic Peroxide		☐ NORM	☐ TENORM	

Section 4 – Composition and Generating Process

4.1) Provide a physical and chemical composition of the waste (e.g. soil, water, PPE, debris, etc.). List the percent ranges of the material, either estimated or known.

soil 0 to 100 % to %

to % to %

to % to %

4.2) Provide a description of the generating process. *Remediation & IDW Sites: please provide a site history.*
The facility, previously known as RVAAP, was formerly used as a load, assemble, and pack facility for munitions production. The soil cuttings were generated from sampling during an environmental investigation.

4.3) Are there any known previous handling or treatment issues involving this waste? ☐ Yes* ☒ No
*If yes, describe:

Section 5 – Hazardous Wastes

As determined by 40 CFR, Part 261 and State Rules: **Please list applicable waste code(s):**

5.1) Is this waste exempted from RCRA? ☐ Yes, please provide exemption: ☒ No

5.2) Is this an EPA RCRA listed hazardous waste (F, K, P or U)? ☐ Yes: ☒ No
a) For F006–F009, F012, does this come from a generator that conducts a cyanide plating process? ☐ Yes ☒ No

5.3) Is this an EPA RCRA characteristic hazardous waste (D001-D043)? ☐ Yes: ☒ No

5.4) Do any State Specific Hazardous Waste Codes apply? ☐ Yes: ☒ No

If you answered 'no' to 5.2, 5.3 and 5.4, please proceed to Section 6.

5.5) EPA Source Code: EPA Form Code:

5.6) Waste Code Determination Is Based On: ☐ Generator Knowledge ☐ Analysis ☐ MSDS
Analysis and/or MSDS may be required for review and approval for hazardous and non-hazardous waste streams.

5.7) Does this waste exceed Land Disposal Restriction levels? ☐ Yes ☐ No

a) Is this stream a wastewater (WW) or non-wastewater (NWW)? ☐ WW ☐ NWW
b) If this waste stream is greater than 50% soil, does it meet the alternative soil treatment standards of 40CFR 268.49? ☐ Yes ☐ No
c) Does this waste contain greater than 50% debris, by volume? (Debris is greater than 2.5 inches in size.) ☐ Yes ☐ No
d) If the debris is larger than 3 ft x 3 ft x 3 ft, please provide the approximate dimensions and weight:

5.8) If this is a characteristic hazardous waste, does it contain Underlying Hazardous Constituents? ☐ Yes* ☐ No

*If Yes, please list:

For a complete list of UHC constituents, please refer to 40 CFR 268.48

Section 6 – Non-Hazardous Wastes

Please list applicable waste code(s):

6.1) Do any State Specific Non-Hazardous Waste Codes apply? ☐ Yes ☒ No

6.2) Is this a Universal (UNIV) waste or a Recyclable Good (RG)? ☐ UNIV ☐ RG ☒ N/A

6.3) Is this waste used oil as defined by 40 CFR Part 279? ☐ Yes ☒ No

a) If yes, is the total halogen content of the used oil waste stream greater than 1,000 ppm? ☐ Yes ☐ No

b) If yes, what is the source of the halogen content?

- ☐ This is a metalworking oil/fluid containing chlorinated paraffins.
- ☐ This is used oil contaminated with chlorofluorocarbons from refrigeration units.
- ☐ This oil contains halogenated solvents. List specific solvents:
- ☐ Other, describe:

Section 7 – TSCA Information

7.1) What is the concentration of PCBs in the waste? ☐ None ☒ 0-49 ppm ☐ 50-499 ppm ☐ 500+ ppm

7.2) Does the waste contain PCB contamination from a source with a concentration ≥ 50 ppm? ☐ Yes ☒ No ☐ Unknown

If you answered "none" or "0-49 ppm"' to 7.1 and "no" to 7.2, please proceed to Section 8.

7.3) Has this waste been processed into a non-liquid form? ☐ Yes* ☐ No

*If yes, what was the concentration of PCBs prior to processing? ☐ 0-499 ppm ☐ 500+ ppm

7.4) Is this non-liquid PCB waste in the form of soil, rags, debris, or other contaminated media? ☐ Yes ☐ No

7.5) Are you a PCB capacitor manufacturer or a PCB equipment manufacturer? ☐ Yes ☐ No

7.6) Has the PCB Article (e.g., transformer, hydraulic machine, PCB-contaminated electrical equipment) been drained/flushed of all PCBs and decontaminated in accordance with 40 CFR 761.60(b)? ☐ N/A ☐ Yes ☐ No

Section 8 – Clean Air Act Information

8.1) Is this waste subject to regulation under 40 CFR, Part 264, Subpart CC (VOC > 500 ppmw)? ☐ Yes ☒ No

8.2) Is this waste subject to regulation under 40 CFR, Part 63, Subpart DD (VOHAP > 500 ppmw)? ☐ Yes ☒ No

8.3) Is the site, or waste, subject to any other NESHAP/MACT standard(s)? ☐ Yes* ☒ No

*If Yes this document serves as notification that this waste contains chemicals , required to be managed in accordance with Part ☐ 61 ☐ 62 ☐ 63 Subpart of NESHAP/MACT standards.

8.4) Does this waste stream contain Benzene? ☐ Yes ☒ No

If you answered "no" to 8.4, please proceed to Section 9.

8.5) Does the waste stream come from a facility subject to 40 CFR 61, Subpart FF (Benzene NESHAP)?

☐ Yes, please provide the SIC/NAICS code: ☐ No

If you answered "no" to questions 8.5, please proceed to Section 9.

8.6) Does your facility manage the waste subject to Benzene NESHAP in a manner other than shipping off-site?

☐ Yes, please specify: ☐ No

8.7) Is the generating source of this waste a facility with Total Annual Benzene (TAB) ≥10 Mg/year? ☐ Yes ☐ No

8.8) Does the waste contain >10% water? ☐ Yes ☐ No

8.9) What is the TAB quantity for your facility? Mg/Year

8.10) What is the total Benzene concentration in your waste? Percent or ppmw.

Supporting analysis must be attached. Do not use TCLP analytical results. Acceptable laboratory methods include 8020, 8240, 8260, 602 and 624.

Section 9 – Certification

I certify that all information (including attachments) is complete and factual and is an accurate representation of the known and suspected hazards, pertaining to the waste described herein. I authorize EQ's personnel to add supplemental information to the waste approval file, provided I am contacted and give verbal permission. I authorize EQ's personnel to obtain a sample from any waste shipment for purposes of verification and confirmation. I agree that, if EQ approves the waste described herein, all such wastes that are transported, delivered, or tendered to EQ by Generator or on Generator's behalf shall be subject to, and Generator shall be bound by, the attached Standard Terms and Conditions.

If I am an agent acting on behalf of the generator, I also certify that I have permission to sign any and all waste characterization paperwork on the generator's behalf and that I can produce such certification in writing upon request.

Generator Signature Kathryn S Tait Printed Name Kathryn S Tait

Company Ohio Natl Guard Title Envntl. Specialist 2 Date 7/6/2016

STANDARD TERMS AND CONDITIONS

The Agreement between the Customer and EQ – The Environmental Quality Company and/or its member companies (hereinafter "EQ") related to or associated with Delivered Waste, as herein defined, shall be governed by the following Standard Terms and Conditions in addition to the terms and conditions contained in any Waste Profile Form, Customer Approval Quote Confirmation, Generator Approval Notification, Notice of Waste Approval Expiration, and/or Credit Agreement associated with such Delivered Waste.

The Customer may use its standard forms (such as purchase orders, acknowledgments of orders, and invoices) to administer its dealings under this Agreement for convenience purposes, but all provisions thereof in conflict with these terms and conditions shall be deemed stricken.

Definitions

The following definitions shall apply for purposes of this Agreement:

"Acceptable Waste" shall mean any hazardous waste, as defined under applicable State or federal law, determined by EQ as acceptable for treatment and/or disposal in accordance with this Agreement.

"Delivered Wastes" shall mean all wastes (i) which are transported, delivered, or tendered to EQ by the Customer; (ii) which the Customer has arranged for the transport, delivery or tender to EQ; or (iii)) which are transported, delivered, or tendered to EQ under a Credit Agreement between the Customer and EQ.

"Non-Conforming Wastes" shall mean wastes that (a) are not in accordance in all material respects with the warranties, descriptions, specifications or limitations stated in the Waste Profile Form and this Agreement; (b) have constituents or components of a type or concentration not specifically identified in the Waste Profile Form (i) which increase the nature or extent of the hazard and risk undertaken by EQ in treating and/or disposing of the waste, or (ii) for whose treatment and/or disposal a Waste Management Facility is not designed or permitted, or (iii) which increase the cost of treatment and/or disposal of waste beyond that specified in EQ's price quote; or (c) are not properly packaged, labeled, described, or placarded, or otherwise not in compliance with United States Department of Transportation and United States Environmental Protection Agency regulations.

Control of Operations.

EQ shall have sole control over all aspects of the operation of any treatment and/or disposal facility of EQ receiving Delivered Wastes under this Agreement (hereinafter, "Waste Management Facility"), including, without limitation, maintaining EQ's desired volume of Acceptable Wastes being delivered to any Waste Management Facility by the Customer or any other person or entity.

Identification of Waste.

For each waste material to be transported, delivered, or tendered to EQ under this Agreement, the Customer shall provide, or cause to be provided, to EQ a representative sample of the waste material and a completed Waste Profile Form containing a physical and chemical description or analysis of such waste material, which description shall conform with any and all guidelines for waste acceptance provided by EQ. On the basis of EQ's analysis of such representative sample of the waste material and such Waste Profile Form, EQ will determine whether such wastes are Acceptable Wastes. EQ does not make any guarantee that it will handle any waste material or any particular quantity or type of waste material, and EQ reserves the right to the decline to transport, treat and/or dispose of waste material. The Customer shall promptly furnish to EQ any information regarding known, suspected or planned changes in the composition of the waste material. Further, the Customer shall promptly inform EQ of any change in the characteristic or condition of the waste material which becomes known to the Customer subsequent to the date of the Waste Profile Form.

Non-Conforming Wastes.

In the event that EQ at any time discovers that any Delivered Waste is Non-Conforming Waste, EQ may reject or revoke its acceptance of the Non-Conforming Waste. The Customer shall have seven (7) days to direct an alternative lawful manner of disposition of the waste, unless it is necessary by reason of law or otherwise to move the Non-Conforming Waste prior to expiration of the seven (7) day period. If the Customer does not direct an alternative disposal, at its option, EQ may return any such Non-Conforming Wastes to the Customer, and the Customer shall pay or reimburse EQ for all costs and expenses incurred by EQ in connection with the receipt, handling, sampling, analyses, transportation and return to the Customer of such Non-Conforming Wastes. If it is impossible or impractical for EQ to return the Non-Conforming Waste to the Customer, the Customer shall reimburse EQ for all costs, of any type or nature whatsoever, incurred by EQ, solely because such Delivered Waste was Non-Conforming Waste (including, but not limited to, all costs associated with any remedial steps necessary, due to the nature of the Non-Conforming Waste, in connection with material with which the Non-Conforming Waste may have been commingled and all expenses and charges for analyzing, handling, locating, preparing for transporting, storing and disposing of any Non-Conforming Waste).

Customer Warranty - Acceptable Wastes.

All Delivered Wastes shall be Acceptable Wastes and shall conform in all material respects to the description and specifications contained in the Waste Profile Form. The information set forth in the Waste Profile Form or any manifest, placard or label associated with any Delivered Wastes, or otherwise represented by the Customer or the generator (if other than the Customer) to EQ, is and shall be true, accurate and complete as of the date of receipt of the involved waste by EQ.

Customer Warranty - Title to Wastes.

Either the Customer or the generator (if other than the Customer) shall hold clear title, free of any all liens, claims, encumbrances, and charges to Delivered Waste until such waste is accepted by EQ.

Customer Warranty - Compliance with Laws.

The Customer shall comply with all applicable federal, state and local environmental statutes, regulations, and other governmental requirements, as well as directives issued by EQ from time to time, governing the transportation, treatment and/or disposal of Acceptable Wastes, including, but not limited to, all packaging, manifesting, containerization, placarding and labeling requirements.

Customer Warranty - Updating Information.

If the Customer receives information that Delivered Waste or other hazardous waste described in the Waste Profile Form, or some component of such waste, presents or may present a hazard or risk to persons, property or the environment which was not disclosed to EQ, or if the Customer or generator (if other than the Customer) has changed the process by which such waste results, the Customer shall promptly report such information to EQ in writing.

Customer Indemnity.

The Customer shall indemnify, defend and hold harmless EQ, and its affiliated or related companies, and all of their respective present or future officers, directors, shareholders, employees and agents from and against any and all losses, damages, liabilities, penalties, fines, forfeitures, demands, claims, causes of action, suits, costs and expenses (including, but not limited to, reasonable costs of defense, settlement, and reasonable attorneys' fees), which may be asserted against any or all of them by any person or any governmental agency, or which any or all of them may hereafter suffer, incur, be responsible for or pay out, as a result of or in connection with bodily injuries (including, but not limited to, death, sickness, disease and emotional or mental distress) to any person (including EQ's employees), damage (including, but not limited to, loss of use) to any property (public or private), or any requirements to conduct or incur expense for investigative, removal or remedial expenses in connection with contamination of or adverse effect on the environment, or any violation or alleged violation of any statues, ordinances, orders, rules or regulations of any governmental entity or agency, caused or arising out of (i) a breach of this Agreement by the Customer, (ii) the failure of any warranty of the Customer to be true, accurate and complete, or (iii) any willful or negligent act or omission of the Customer, or its employees or agents in connection with the performance of this Agreement.

Force Majeure

EQ shall not be liable for any failure to accept, receive, handle, treat, and/or dispose of Delivered Waste due to an act of God, fire, casualty, flood, war, strike, lockout, labor trouble, failure of public utilities, equipment failure, facility shutdown, injunction, accident, epidemic, riot, insurrection, destruction of operation or transportation facilities, the inability to procure materials, equipment, or sufficient personnel or energy in order to meet operational needs without the necessity of allocation, the failure or inability to obtain any governmental approvals or to meet Environmental Requirements (including, but not limited to voluntary or involuntary compliance with any act, exercise, assertion, or requirement of any governmental authority) which may temporarily or permanently prohibit operations of EQ, the Customer, or the Generator, or any other circumstances beyond the control of EQ which prevents or delays performance of any of its obligations under this Agreement.

Governing Laws

This Agreement shall in all respects be governed by and shall be construed in accordance with the laws of the State of Michigan applied to contracts executed and performed wholly within such state.

Bulk Disposal Charges

Quoted bulk disposal charges for solid materials will be billed by the cubic yard, if the waste density is less than 2,000lbs./cubic yard. If waste density is greater than 2,000 lbs./cubic yard, then bulk disposal charges will be billed by the ton, regardless of the approved container.

US ecology

Profile Tracking # _____

WASTE PROFILE FORM

For assistance in completing this document or for additional information on service offerings, please visit our website at www.usecology.com, or call 800-592-5489.

US Ecology will choose the appropriate facility and method of waste management for your waste from the technologies offered at each operation.

If you wish to direct this waste to a specific facility(s) or treatment technology please indicate here:

Waste Common Name: IDW wash water

Section 1 – Generator & Customer Information

Generator EPA ID # OH5210020736
NAICS/SIC Code
Generator Former Ravenna Army Ammunition Plant
Facility Address 8451 State Route 5
City Ravenna State Ohio Zip 44266
24-hour Emergency Response Number
1-800-275-6629
Mailing Address 1438 State Route 534 SW
City Newton Falls State Ohio Zip 44444
Generator Contact Katie Tait
Title Environmental Specialist 2
Phone 614-336-6136 Fax
E-mail kathryn.s.tait.nfg@mail.mil

Internal Use Only: EQ Division
EQ Customer No.
Invoicing Company
Address
City State Zip
Country
Invoicing Contact
Phone Fax
Technical Contact
Phone Fax
Cell Phone
E-mail

Section 2 – Shipping & Packaging Information

2.1) Shipping Volume & Frequency:
a) Volume of Waste to be Shipped: 55 gallon drum
b) Frequency: ☒ One time ☐ Month ☐ Year ☐ Other:

2.2) DOT Information
a) Is this a U.S. Department of Transportation (USDOT) Hazardous Material? ☐ Yes ☒ No
b) If "Yes", indicate the proper shipping name per 49CFR 172.101 Hazardous Materials Table:

Section 3 – Special Properties

3.1) Color brownish clear

3.2) Odor ☒ None ☐ Ammonia ☐ Amines ☐ Mercaptans ☐ Sulfur ☐ Organic Acid ☐ Amines/Ammonia ☐ Other:

3.3) Consistency at 70°F: ☐ Solid ☐ Dust/Powder ☐ Debris ☐ Sludge ☒ Liquid ☐ Gas/Aerosol ☐ Varies

3.4) What is the pH? ☐ ≤2 ☐ 2.1-4.9 ☒ 5 – 10 ☐ 10.1 – 12.4 ☐ ≥12.5 ☐ N/A

3.5) What is the flash point? ☐ <90°F ☐ 90-139°F ☒ 140-199°F ☐ >200°F ☐ N/A

3.6) Does this waste exhibit any of the following properties? **(check all that apply)**

☒ **None**	☐ Free Liquids	☐ Metal Fines	☐ Water Reactive	☐ Biohazard
☐ Shock Sensitive	☐ Oily Residue	☐ Dioxins	☐ Furans	☐ Aluminum
☐ Asbestos – non-friable	☐ Asbestos – friable	☐ Other Radioactive	☐ Air Reactive	☐ Isocyanates
☐ Biodegradable Sorbents	☐ Pyrophoric	☐ Reactive Sulfide	☐ Reactive Cyanide	☐ Explosives
☐ Temperature Controlled Organic Peroxide		☐ NORM	☐ TENORM	

Section 4 – Composition and Generating Process

4.1) Provide a physical and chemical composition of the waste (e.g. soil, water, PPE, debris, etc.). List the percent ranges of the material, either estimated or known.

Liquid 0 to 95 % to %

Soil 0 to 5 % to %

to % to %

4.2) Provide a description of the generating process. *Remediation & IDW Sites: please provide a site history.*
The facility, previously known as RVAAP, was formerly used as a load, assemble, and pack facility for munitions production. The liquid was generated from decontamination of sampling equipment used during an environmental investigation.

4.3) Are there any known previous handling or treatment issues involving this waste? ☐ Yes* ☒ No
*If yes, describe:

Section 5 – Hazardous Wastes

As determined by 40 CFR, Part 261 and State Rules: **Please list applicable waste code(s):**

5.1) Is this waste exempted from RCRA? ☐ Yes, please provide exemption: ☒ No

5.2) Is this an EPA RCRA listed hazardous waste (F, K, P or U)? ☐ Yes: ☒ No
a) For F006–F009, F012, does this come from a generator that conducts a cyanide plating process? ☐ Yes ☒ No

5.3) Is this an EPA RCRA characteristic hazardous waste (D001-D043)? ☐ Yes: ☒ No

5.4) Do any State Specific Hazardous Waste Codes apply? ☐ Yes: ☒ No

If you answered 'no' to 5.2, 5.3 and 5.4, please proceed to Section 6.

5.5) EPA Source Code: EPA Form Code:

5.6) Waste Code Determination Is Based On: ☐ Generator Knowledge ☐ Analysis ☐ MSDS
Analysis and/or MSDS may be required for review and approval for hazardous and non-hazardous waste streams.

5.7) Does this waste exceed Land Disposal Restriction levels? ☐ Yes ☐ No

a) Is this stream a wastewater (WW) or non-wastewater (NWW)? ☐ WW ☐ NWW
b) If this waste stream is greater than 50% soil, does it meet the alternative soil treatment standards of 40CFR 268.49? ☐ Yes ☐ No
c) Does this waste contain greater than 50% debris, by volume? (Debris is greater than 2.5 inches in size.) ☐ Yes ☐ No
d) If the debris is larger than 3 ft x 3 ft x 3 ft, please provide the approximate dimensions and weight:

5.8) If this is a characteristic hazardous waste, does it contain Underlying Hazardous Constituents? ☐ Yes* ☐ No

*If Yes, please list:

For a complete list of UHC constituents, please refer to 40 CFR 268.48

Section 6 – Non-Hazardous Wastes

Please list applicable waste code(s):

6.1) Do any State Specific Non-Hazardous Waste Codes apply? ☐ Yes ☒ No

6.2) Is this a Universal (UNIV) waste or a Recyclable Good (RG)? ☐ UNIV ☐ RG ☒ N/A

6.3) Is this waste used oil as defined by 40 CFR Part 279? ☐ Yes ☒ No

a) If yes, is the total halogen content of the used oil waste stream greater than 1,000 ppm? ☐ Yes ☐ No

b) If yes, what is the source of the halogen content?

- ☐ This is a metalworking oil/fluid containing chlorinated paraffins.
- ☐ This is used oil contaminated with chlorofluorocarbons from refrigeration units.
- ☐ This oil contains halogenated solvents. List specific solvents:
- ☐ Other, describe:

Section 7 – TSCA Information

7.1) What is the concentration of PCBs in the waste? ☒ None ☐ 0-49 ppm ☐ 50-499 ppm ☐ 500+ ppm

7.2) Does the waste contain PCB contamination from a source with a concentration ≥ 50 ppm? ☐ Yes ☒ No ☐ Unknown

If you answered "none" or "0-49 ppm"' to 7.1 and "no" to 7.2, please proceed to Section 8.

7.3) Has this waste been processed into a non-liquid form? ☐ Yes* ☐ No

*If yes, what was the concentration of PCBs prior to processing? ☐ 0-499 ppm ☐ 500+ ppm

7.4) Is this non-liquid PCB waste in the form of soil, rags, debris, or other contaminated media? ☐ Yes ☐ No

7.5) Are you a PCB capacitor manufacturer or a PCB equipment manufacturer? ☐ Yes ☐ No

7.6) Has the PCB Article (e.g., transformer, hydraulic machine, PCB-contaminated electrical equipment) been drained/flushed of all PCBs and decontaminated in accordance with 40 CFR 761.60(b)? ☐ N/A ☐ Yes ☐ No

Section 8 – Clean Air Act Information

8.1) Is this waste subject to regulation under 40 CFR, Part 264, Subpart CC (VOC > 500 ppmw)? ☐ Yes ☒ No

8.2) Is this waste subject to regulation under 40 CFR, Part 63, Subpart DD (VOHAP > 500 ppmw)? ☐ Yes ☒ No

8.3) Is the site, or waste, subject to any other NESHAP/MACT standard(s)? ☐ Yes* ☒ No

*If Yes this document serves as notification that this waste contains chemicals , required to be managed in accordance with Part ☐ 61 ☐ 62 ☐ 63 Subpart of NESHAP/MACT standards.

8.4) Does this waste stream contain Benzene? ☐ Yes ☒ No

If you answered "no" to 8.4, please proceed to Section 9.

8.5) Does the waste stream come from a facility subject to 40 CFR 61, Subpart FF (Benzene NESHAP)?

☐ Yes, please provide the SIC/NAICS code: ☐ No

If you answered "no" to questions 8.5, please proceed to Section 9.

8.6) Does your facility manage the waste subject to Benzene NESHAP in a manner other than shipping off-site?

☐ Yes, please specify: ☐ No

8.7) Is the generating source of this waste a facility with Total Annual Benzene (TAB) ≥10 Mg/year? ☐ Yes ☐ No

8.8) Does the waste contain >10% water? ☐ Yes ☐ No

8.9) What is the TAB quantity for your facility? Mg/Year

8.10) What is the total Benzene concentration in your waste? Percent or ppmw.

Supporting analysis must be attached. Do not use TCLP analytical results. Acceptable laboratory methods include 8020, 8240, 8260, 602 and 624.

Section 9 – Certification

I certify that all information (including attachments) is complete and factual and is an accurate representation of the known and suspected hazards, pertaining to the waste described herein. I authorize EQ's personnel to add supplemental information to the waste approval file, provided I am contacted and give verbal permission. I authorize EQ's personnel to obtain a sample from any waste shipment for purposes of verification and confirmation. I agree that, if EQ approves the waste described herein, all such wastes that are transported, delivered, or tendered to EQ by Generator or on Generator's behalf shall be subject to, and Generator shall be bound by, the attached Standard Terms and Conditions.

If I am an agent acting on behalf of the generator, I also certify that I have permission to sign any and all waste characterization paperwork on the generator's behalf and that I can produce such certification in writing upon request.

Generator Signature Kathryn S Tait Printed Name Kathryn S. Tait

Company Ohio Natl Guard Title Envmtl Specialist 2 Date 7/6/2016

STANDARD TERMS AND CONDITIONS

The Agreement between the Customer and EQ – The Environmental Quality Company and/or its member companies (hereinafter "EQ") related to or associated with Delivered Waste, as herein defined, shall be governed by the following Standard Terms and Conditions in addition to the terms and conditions contained in any Waste Profile Form, Customer Approval Quote Confirmation, Generator Approval Notification, Notice of Waste Approval Expiration, and/or Credit Agreement associated with such Delivered Waste.

The Customer may use its standard forms (such as purchase orders, acknowledgments of orders, and invoices) to administer its dealings under this Agreement for convenience purposes, but all provisions thereof in conflict with these terms and conditions shall be deemed stricken.

Definitions

The following definitions shall apply for purposes of this Agreement:

"Acceptable Waste" shall mean any hazardous waste, as defined under applicable State or federal law, determined by EQ as acceptable for treatment and/or disposal in accordance with this Agreement.

"Delivered Wastes" shall mean all wastes (i) which are transported, delivered, or tendered to EQ by the Customer; (ii) which the Customer has arranged for the transport, delivery or tender to EQ; or (iii)) which are transported, delivered, or tendered to EQ under a Credit Agreement between the Customer and EQ.

"Non-Conforming Wastes" shall mean wastes that (a) are not in accordance in all material respects with the warranties, descriptions, specifications or limitations stated in the Waste Profile Form and this Agreement; (b) have constituents or components of a type or concentration not specifically identified in the Waste Profile Form (i) which increase the nature or extent of the hazard and risk undertaken by EQ in treating and/or disposing of the waste, or (ii) for whose treatment and/or disposal a Waste Management Facility is not designed or permitted, or (iii) which increase the cost of treatment and/or disposal of waste beyond that specified in EQ's price quote; or (c) are not properly packaged, labeled, described, or placarded, or otherwise not in compliance with United States Department of Transportation and United States Environmental Protection Agency regulations.

Control of Operations.

EQ shall have sole control over all aspects of the operation of any treatment and/or disposal facility of EQ receiving Delivered Wastes under this Agreement (hereinafter, "Waste Management Facility"), including, without limitation, maintaining EQ's desired volume of Acceptable Wastes being delivered to any Waste Management Facility by the Customer or any other person or entity.

Identification of Waste.

For each waste material to be transported, delivered, or tendered to EQ under this Agreement, the Customer shall provide, or cause to be provided, to EQ a representative sample of the waste material and a completed Waste Profile Form containing a physical and chemical description or analysis of such waste material, which description shall conform with any and all guidelines for waste acceptance provided by EQ. On the basis of EQ's analysis of such representative sample of the waste material and such Waste Profile Form, EQ will determine whether such wastes are Acceptable Wastes. EQ does not make any guarantee that it will handle any waste material or any particular quantity or type of waste material, and EQ reserves the right to the decline to transport, treat and/or dispose of waste material. The Customer shall promptly furnish to EQ any information regarding known, suspected or planned changes in the composition of the waste material. Further, the Customer shall promptly inform EQ of any change in the characteristic or condition of the waste material which becomes known to the Customer subsequent to the date of the Waste Profile Form.

Non-Conforming Wastes.

In the event that EQ at any time discovers that any Delivered Waste is Non-Conforming Waste, EQ may reject or revoke its acceptance of the Non-Conforming Waste. The Customer shall have seven (7) days to direct an alternative lawful manner of disposition of the waste, unless it is necessary by reason of law or otherwise to move the Non-Conforming Waste prior to expiration of the seven (7) day period. If the Customer does not direct an alternative disposal, at its option, EQ may return any such Non-Conforming Wastes to the Customer, and the Customer shall pay or reimburse EQ for all costs and expenses incurred by EQ in connection with the receipt, handling, sampling, analyses, transportation and return to the Customer of such Non-Conforming Wastes. If it is impossible or impractical for EQ to return the Non-Conforming Waste to the Customer, the Customer shall reimburse EQ for all costs, of any type or nature whatsoever, incurred by EQ, solely because such Delivered Waste was Non-Conforming Waste (including, but not limited to, all costs associated with any remedial steps necessary, due to the nature of the Non-Conforming Waste, in connection with material with which the Non-Conforming Waste may have been commingled and all expenses and charges for analyzing, handling, locating, preparing for transporting, storing and disposing of any Non-Conforming Waste).

Customer Warranty - Acceptable Wastes.

All Delivered Wastes shall be Acceptable Wastes and shall conform in all material respects to the description and specifications contained in the Waste Profile Form. The information set forth in the Waste Profile Form or any manifest, placard or label associated with any Delivered Wastes, or otherwise represented by the Customer or the generator (if other than the Customer) to EQ, is and shall be true, accurate and complete as of the date of receipt of the involved waste by EQ.

Customer Warranty - Title to Wastes.

Either the Customer or the generator (if other than the Customer) shall hold clear title, free of any all liens, claims, encumbrances, and charges to Delivered Waste until such waste is accepted by EQ.

Customer Warranty - Compliance with Laws.

The Customer shall comply with all applicable federal, state and local environmental statutes, regulations, and other governmental requirements, as well as directives issued by EQ from time to time, governing the transportation, treatment and/or disposal of Acceptable Wastes, including, but not limited to, all packaging, manifesting, containerization, placarding and labeling requirements.

Customer Warranty - Updating Information.

If the Customer receives information that Delivered Waste or other hazardous waste described in the Waste Profile Form, or some component of such waste, presents or may present a hazard or risk to persons, property or the environment which was not disclosed to EQ, or if the Customer or generator (if other than the Customer) has changed the process by which such waste results, the Customer shall promptly report such information to EQ in writing.

Customer Indemnity.

The Customer shall indemnify, defend and hold harmless EQ, and its affiliated or related companies, and all of their respective present or future officers, directors, shareholders, employees and agents from and against any and all losses, damages, liabilities, penalties, fines, forfeitures, demands, claims, causes of action, suits, costs and expenses (including, but not limited to, reasonable costs of defense, settlement, and reasonable attorneys' fees), which may be asserted against any or all of them by any person or any governmental agency, or which any or all of them may hereafter suffer, incur, be responsible for or pay out, as a result of or in connection with bodily injuries (including, but not limited to, death, sickness, disease and emotional or mental distress) to any person (including EQ's employees), damage (including, but not limited to, loss of use) to any property (public or private), or any requirements to conduct or incur expense for investigative, removal or remedial expenses in connection with contamination of or adverse effect on the environment, or any violation or alleged violation of any statues, ordinances, orders, rules or regulations of any governmental entity or agency, caused or arising out of (i) a breach of this Agreement by the Customer, (ii) the failure of any warranty of the Customer to be true, accurate and complete, or (iii) any willful or negligent act or omission of the Customer, or its employees or agents in connection with the performance of this Agreement.

Force Majeure

EQ shall not be liable for any failure to accept, receive, handle, treat, and/or dispose of Delivered Waste due to an act of God, fire, casualty, flood, war, strike, lockout, labor trouble, failure of public utilities, equipment failure, facility shutdown, injunction, accident, epidemic, riot, insurrection, destruction of operation or transportation facilities, the inability to procure materials, equipment, or sufficient personnel or energy in order to meet operational needs without the necessity of allocation, the failure or inability to obtain any governmental approvals or to meet Environmental Requirements (including, but not limited to voluntary or involuntary compliance with any act, exercise, assertion, or requirement of any governmental authority) which may temporarily or permanently prohibit operations of EQ, the Customer, or the Generator, or any other circumstances beyond the control of EQ which prevents or delays performance of any of its obligations under this Agreement.

Governing Laws

This Agreement shall in all respects be governed by and shall be construed in accordance with the laws of the State of Michigan applied to contracts executed and performed wholly within such state.

Bulk Disposal Charges

Quoted bulk disposal charges for solid materials will be billed by the cubic yard, if the waste density is less than 2,000lbs./cubic yard. If waste density is greater than 2,000 lbs./cubic yard, then bulk disposal charges will be billed by the ton, regardless of the approved container.

WASTE MANIFEST

37435

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number: OH5 210 020 736
2. Page 1 of: 2
3. Emergency Response Phone: (800) 851-8061
4. Waste Tracking Number: 104148

5. Generator's Name and Mailing Address: FORMER RAVENNA ARMY AMMUN
1438 STATE ROUTE 534 SW
NEWTON FALLS, OH 44444
Generator's Phone: (614) 336-6136

Generator's Site Address (if different than mailing address)
8451 STATE ROUTE 5
RAVENNA, OH 44266

6. Transporter 1 Company Name: EQ INDUSTRIAL SERVICES
U.S. EPA ID Number: MIK 435 642 742

7. Transporter 2 Company Name: Smith Systems Trans.
U.S. EPA ID Number: NED986382133

8. Designated Facility Name and Site Address: EQIS TRANSFER & PROCESSING
2650 N. SHADELAND AVENUE
INDIANAPOLIS, IN 46219
Facility's Phone: (317) 247-7160
U.S. EPA ID Number: INR 000 125 641

GENERATOR

9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1. NON-REGULATED MATERIAL	001	DM	00117	P
2. NON-REGULATED MATERIAL	001	DM	00242	P
3.				
4.				

13. Special Handling Instructions and Additional Information
1. G184339IND / soil 2. G184351IND / IDW WASH WATER [T:14.06.45040.1]

WO 1027800

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
Generator's/Offeror's Printed/Typed Name: X Kevin Stovak
Signature: X
Month 07 Day 29 Year 16

INTL
15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER
16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Ken Good
Signature:
Month 07 Day 29 Year 16
Transporter 2 Printed/Typed Name: Vincent G. Roberts
Signature:
Month 7 Day 31 Year 16

DESIGNATED FACILITY
17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
17b. Alternate Facility (or Generator) Manifest Reference Number:
U.S. EPA ID Number
Facility's Phone:
17c. Signature of Alternate Facility (or Generator)
Month Day Year

HW RG HW RG
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in item 17a
Printed/Typed Name: Steven Bandt
Signature:
Month 8 Day 4 Year 16

169-BLC-I 6 Rev. 8/06

DESIGNATED FACILITY TO GENERATOR

Use Print or Type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)

21. Generator ID Number	22. Page	23. Manifest Tracking Number
OH5210020736	2	104148

24. Generator's Name: Former Ravenna Army Ammunition Plant

25. Transporter 3 Company Name: EQ Industrial Services — U.S. EPA ID Number: MIK435642742

26. Transporter 4 Company Name: S&C Transport — U.S. EPA ID Number: MIKP639984

GENERATOR

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	28. Containers Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes

Transporters Copy

32. Special Handling Instructions and Additional Information

TRANSPORTER

33. Transporter 3 Acknowledgment of Receipt of Materials
Printed/Typed Name: Tonya Woodward — Signature: [signature] — Month: 08 Day: 01 Year: 16

34. Transporter 4 Acknowledgment of Receipt of Materials
Printed/Typed Name: Tom Clay — Signature: [signature] — Month: 8 Day: 31 Year: [illegible]

35. Discrepancy

DESIGNATED FACILITY

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

EPA Form 8700-22A (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

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